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# TRILOBITA

COMPILED BY

J. T. TEMPLE, M.A., Ph.D.

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### I.—TITLES

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**Declaration 36.** Determination under Decision 85 of the Fourteenth International Congress of Zoology, Copenhagen, 1953, of the gender to be attributed to generic names having the terminations "-*ops*" and "-*opsis*" respectively. Opin. int. Comm. zool. Nom. 18 2 : iii-xii.

**Declaration 37.** Clarification of the provisions in the *Règles* regarding the method to be followed in determining the relative precedence to be accorded to any two names for nominal family-group taxa published in the same work and on the same date. Opin. int. Comm. zool. Nom. 18 4 : xv-xxii.

**Declaration 38.** Clarification of the procedure to be adopted for determining the authorship to be attributed for the purposes of zoological nomenclature to any given work in cases where the accuracy of the authorship stated in the title has been questioned. Opin. int. Comm. zool. Nom. 18 13 : xxv-xxx.

**Declaration 39.** Review under Copenhagen Decision 85 of the Rules relating to the gender to be attributed to certain classes of generic name

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**Opinion 512.** Validation under the Plenary Powers of the generic name *Sao* Barrande, 1846 (Class Trilobita). Opin. int. Comm. zool. Nom. 18 16 : 275-290.

**Alikhova, T. N.** [On the question of the subdivision of the Ordovician system.] Soviet Geol., Moscow 55 1957 : 93-113 tables 1-5. [In Russian.]

**Alikhova, T. N.** see Balashova, E. A.

**Almela, A. & Sanz, R.** Resumen de la historia geológica de la Tierra. Mem. Inst. geol. Esp. 59 : 1-174 maps 81 pls. [Trilobita on pls. i, ii, v, vi (reproductions after various authors), xi (original).]

**Anglade, A.** Schwarck see Schwarck Anglade, A.

**Bachmayer, F.** Die Trilobiten, eine vor 200 Millionen Jahren ausgestorbene Tiergruppe. Universum—Natur u. Tech., Vienna 11 19-20 1956 : 603-610 text-figs. 1-13. [Offprint only seen.]

**Balashova, E. A. (1).** [On the tactile organs of trilobites.] C. R. Acad. Sci. U.R.S.S. (ns) 61 3 1948 : 509-511 text-fig. 1. [In Russian.]

**Balashova, E. A. (2).** [On the history of the development of the genus *Asaphus* in the Baltic area.] Trud. VNIGRI (ns) 78 1953 : 385-437 pls. i-v 2 tables. [In Russian : offprint only seen.]

**Balashova, E. A. (3).** [Descriptions of trilobites, in T. N. Alikhova et al., Field Atlas of the characteristic complexes of the fauna of the Silurian deposits of the southern part of the Lithuanian SSR.] Trud. VSEGEI, Moscow 1954 : 43 pp. pls. i-xxvi. [In Russian.]

**Balashova, E. A.** see Dyufur, M. S.

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**Bentley, C.** see Robison, R. A.

**Berg, R. R. & Ross, R. J.** Stratigraphic significance of trilobite zones in the Peerless and Manitou formations, Colorado [Abstract]. Bull. geol. Soc. Amer. 69 12 : 1723.

**Best, R. V., Brackenridge, A. H. & Weber, J. N. E.** A Local Population of *Enerinurus* [Abstract]. Proc. roy. Soc. Can. (3) 52 Appendix C: 25.

**Best, R. V.** see Leech, G. B.

**Bohlin, B.** see Whittington, H. B.

**Bolton, T. E.** Silurian stratigraphy and palaeontology of the Niagara escarpment in Ontario. Mem. geol. Surv. Can. No. 289 1957 : 1-145 pls. i-xiii tables I-XII.

**Bolton, T. E.** see Leech, G. B.

**Borukaev, R. A. & Ivshin, N. K.** [The Middle Cambrian of Kazakhstan.] Izv. Acad. Sci. Kazakhstan S.S.R. No. 119 [Geol. Ser. No. 15] 1952 : 36-64 text-figs. 1-8. [Trilobita det. N. K. Ivshin, E. V. Lermontova, N. V. Pokrovskaya.] [In Russian.]

**Boucot, A. J. et al.** Metamorphosed Middle Paleozoic fossils from central Massachusetts, eastern Vermont, and

western New Hampshire. Bull. geol. Soc. Amer. **69** 7 : 855-864 pls. i-vi text-fig. 1.

**Brackenridge, A. H.** *see* Best, R. V.

**Burns, C. A.** Geological Notes on localities in James Bay, Hudson Bay, and Foxe Basin visited during an exploration cruise, 1949. Pap. geol. Surv. Canada No. 52-25 1952 : 1-16 map. Fossils det. A. E. Wilson.]

**Bykova, E. V.** [On the discovery of chitinoid Foraminifera in Ordovician deposits of Northern Kazakhstan.] C. R. Acad. Sci. U.R.S.S. (ns) **120** 4 : 879-881 pl. [In Russian.]

**Calver, M. A.** *see* Tulloch, W.

**Cavet, P. & Pillet, J.** Les Trilobites des calcaires à Polypiers siliceux (Eifélien) du synclinal de Villefranche-de-Conflent (Pyrénées-Orientales). Bull. Soc. géol. Fr. (6) **81** : 21-37 pl. iii text-figs. 1-2 text-pl.

**Chang, W. T. (1).** Some Lower Cambrian trilobites from western Hupei. Acta palaeont. sinica **1** 3 1953 : 121-136 [Chinese], 137-149 [English] pls. i-iv.

**Chang, W. T. (2).** Note on a New Proetid from Upper Devonian of Kwangsi. Acta palaeont. sinica **3** 1955 : 189-191 [Chinese], 191-192 [English] pl. i.

**Chernysheva, N. E. (1).** [Silurian and Devonian trilobites of Mongolia and Tuva.] Trud. Mong. Kom. (Acad. Sci. S.S.R.) No. 28 1937 : 1-23 pls. i-ii text-figs. 1-4. [In Russian: English summary pp. 24-32.]

**Chernysheva, N. E. (2).** [New Middle Cambrian Trilobites of Eastern Siberia.] Trud. VSEGEI **1** 1950 : 67-77 pl. i [In Russian: photostat only seen.] [E. V. Lermontova co-author of new taxa.]

**Chernysheva, N. E. (3).** [Stratigraphy of the Cambrian deposits of the south-eastern outskirts of the Siberian platform, in Materials on

the geology of the Siberian platform.] Mater. VSEGEI (ns) **7** Gen. Ser. 1955 : 29-40 folding pl. [In Russian.]

**Chernysheva, N. E. (4).** [On the question of the subdivision of the Cambrian sediments of the Siberian platform.] Soviet Geol., Moscow **55** 1957 : 78-92. [In Russian.]

**Chernysheva, N. E.** *see* Dvortsova, K. I.

**Chien Yi-yuan.** Ontogeny of a New Upper Cambrian Trilobite from Penchi, Liaoning. Acta palaeont. sinica **6** 4 : 453-466 [Chinese], 466-477 [English] pls. i-iv [pls. iii & iv interchanged] text-figs. 1-2.

**Chjan Bu-chun** *see* Nagibina, M. S.

**Chlupáč, I. (1).** Předběžná zpráva o stratigraficko-paleontologických výzkumech středočeského nejvyššího siluru a spodního devonu. Věstn. Úst. úst. geol. **27** 6 1952 : 243-250.

**Chlupáč, I. (2).** Předběžná zpráva o stratigrafických výzkumech středočeského spodního devonu. Věstn. Úst. úst. geol. **29** 3 1954 : 133-140.

**Chlupáč, I. (3).** Stratigrafický výzkum spodní části branických vápenců v Barrandienu [A stratigraphical investigation of the lower part of the Bránik limestones in the Barrandian]. Věstn. Úst. úst. geol. **30** 2 1955: 59-72 text-fig. 1 [Russian & English summaries p. 72.]

**Chlupáč, I. (4).** Nové poznatky o stratigrafii středočeského devonu [A contribution to the stratigraphy of the Devonian of Central Bohemia]. Věstn. Úst. úst. geol. **31** 5 1956: 233-243 [Russian & English summaries p. 243.]

**Chlupáč, I. (5).** Nález spodno-karbonské fauny u Hranic na Moravě [A find of Lower Carboniferous fauna near Hranice in Moravia]. Věstn. Úst. úst. geol. **31** 6 1956: 268-273 pl. i text-fig. 1. [Russian & English summaries p. 273.]

**Chlupáč, I. (6).** Stratigraficko-paleontologický výzkum břidlic dalej-

ských a vápenců hlubočepských ve středočeském devonu [Stratigraphical paleontological investigation of the Daleje beds and the Hlubočepy limestones in the Devonian of central Bohemia]. Věstn. Úst. úst. geol. **32** 4 1957 : 248–258 text-fig. [English summary p. 258.]

**Chlupáč, I. (7).** Nové paleontologické nálezy v srbských vrstvách středočeského devonu [New paleontological finds in the Srbsko beds of the Devonian of central Bohemia]. Věstn. Úst. úst. geol. **33** 5 1958 : 365–367. [English summary p. 367.]

**Chlupáč, I. (8).** Nová spodnokarbonická fauna od Hranic na Moravě [The new Lower Carboniferous fauna from the vicinity of Hranice in Moravia]. Sborn. Úst. úst. geol. **24** [Pal.] (for 1957) 1958 : 279–302 [Czech text], 303–311 [English summary], 312 [Russian summary] pls. i–iv text-figs. 1–4.

**Chlupáč, I. (9).** Bemerkungen zur Stratigraphie und Parallelisierung des böhmisch entwickelten Unter- und Mittel-Devon im Harz. Geologie **7** 2 1958 : 158–170 table. [Czech summary pp. 168–169.]

**Chlupáč, I.** *see* Havlíček, V.

**Chlupáč, I.** *see* Horný, R.

**Choubert, G.** L'Adoudounien et le Précambrien III dans l'Anti-Atlas, *in* Les Relations entre Précambrien et Cambrien : Problèmes des séries intermédiaires. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 : 143–157 text-figs. 1–2 tables I–II. [Trilobita p. 144 det. P. Hupé.]

**Chugaeva, M. N.** [Trilobites of the Ordovician of the Chu-Ili mountains, *in* The Ordovician of Kazakhstan III.] Trud. geol. Inst. [GIN] S.S.S.R. **9** : 5–138 pls. i–xi text-figs. 1–20 tables 1–2. [In Russian.]

**Cooper, G. A. et al.** Geología y paleontología de la región de Cabo Corral, norponiente de Sonora Parte 1a Paleontología y Estratigrafía del Cámbrico de Cabo Corral. XX Congr. geol. int. Mexico [Bol. Inst. Geol.

Univ. nac. aut. Mexico **58**] 1956 : xiii+259 pp. pls. iii–xxxiii. [Translation of the article originally published in Smithson. misc. Coll. **119** 1 1952 (recorded Z.R. **90** 11).]

**Cooper, G. A.** *see* Maher, J. C.

**Curtis, M. L. K.** The Upper Llandover Trilobites of the Tortworth Inlier, Gloucestershire. Palaeontology **1** 2 : 139–146 pl. xxix.

**Cvancara, A. M.** Invertebrate fossils from the Lower Carboniferous of New South Wales. J. Paleont. **32** 5 : 846–888 pls. cxix–cxiii text-figs. 1–9. [Trilobita pl. cxiii *pars*.]

**Davitashvili, L. Sh. (1).** [Course of Palaeontology.] Moscow & Leningrad 1941 : 573 pp. 781 text-figs. portraits [Trilobita pp. 257–270 text-figs. 419–443.] [In Russian.]

**Davitashvili, L. Sh. (2).** [Short course of palaeontology.] Moscow 1958 : 544 pp. 615 text-figs. [Trilobitae pp. 216–230 text-figs. 279–297.] [In Russian.]

**Dean, W. T.** The Faunal Succession in the Caradoc Series of South Shropshire. Bull. Brit. Mus. (nat. Hist.) [Geol.] **3** 6 : 193–231 pls. xxiv–xxvi text-figs. 1–4.

**Decker, C. E.** *see* Schwarck Anglade, A. .

**Drewes, H.** Structural geology of the southern Snake Range, Nevada. Bull. geol. Soc. Amer. **69** 2 : 221–239 pls. i–ii text-figs. 1–4 tables 1–7 [Trilobita det. A. R. Palmer.]

**Dufour, M. S.** *see* Dyufur, M. S.

**Dvortsova, K. I.** [Cambrian phosphorite-bearing deposits in the mountains of Kandyktas (South Kazakhstan).] C. R. Acad. Sci. U.R.S.S. (ns) **123** 5: 907–909. [Trilobita det. N. E. Chernysheva & N. K. Ivshin.] [In Russian.]

**Dyufur, M. S.** [On Ordovician deposits in Eastern Pamir.] C. R. Acad. Sci. U.R.S.S. (ns) **120** 2 : 381–383 text-fig. 1. [Trilobita det. E. A. Balashova.] [In Russian.]

**Edgell, H. S.** *see* Erben, H. K.

**Egorova, L. I. & Hsiang Li-wén.** On new discoveries of Cambrian trilobites in eastern Tsinling.] *Acta palaeont. sinica* 6 4 : 325-330 [Chinese], 330-336 [Russian] text-fig. 1. [Records of Trilobita also by other authors.]

**Erben, H. K. (1).** Review of L. Kielan, A new trilobite of the genus *Ceraurus* and the significance of cephalic spines in the ontogeny and phylogeny of trilobites [recorded Z. R. 93 11 (for 1955)]. *Zbl. Geol. [2]* 1957 5 1958 : 576-578.

**Erben, H. K. (2).** Review of F. Prantl & A. Přibyl, A study of the Superfamily Odontopleuracea nov. superfam. (Trilobites) [recorded Z. R. 87 11]. *Zbl. Geol. [2]* 1957 5 1958 : 584-585.

**Erben, H. K. (3).** Review of A. Přibyl & H. K. Erben, Über einige neue oder wenig bekannte Acanthopyginae (Tril.) des böhmischen und des deutschen Devons [recorded Z. R. 90 11]. *Zbl. Geol. [2]* 1957 5 1958 : 588-589.

**Erben, H. K. (4).** Review of H. S. Edgell, A Middle Devonian lichid Trilobite from South-Eastern Australia [recorded Z. R. 93 11 (for 1955)]. *Zbl. Geol. [2]* 1957 5 1958 : 589.

**Erben, H. K. (5).** Gesichtsnaht, Erblindung und Aussterben der Proetinae (Tril.) [Abstract]. *Paläont. Z.* 32 1-2 : 8.

**Forbes, C. L., Harland, W. B. & Hughes, N. F.** Palaeontological Evidence for the Age of the Carboniferous and Permian Rocks of Central West Spitsbergen. *Geol. Mag., Lond.* 95 6 : 465-490 text-fig. 1 tables I-II [Trilobita det. Forbes.]

**Fortier, Y. O.** *see* Thorsteinsson, R.

**Fowler, A.** The Zonal Sequence in the Carboniferous Rocks of south-east Tyrone. *Bull. geol. Surv. G.B.* No. 8 1955 : 38-43 pl. i text-fig. 1. [Trilobita det. C. J. Stubblefield.]

**Frederickson, E. A.** Lower Tremadocian trilobite from Venezuela. *J. Paleont.* 32 3 : 541-543 pl. lxxx.

**Gallitelli, E.** Montanaro *see* Montanaro Gallitelli, E.

**Gatinsky, Yu. G.** *see* Nagibina, M.S.

**Gauthier, H. Marcel Thoral** 1900-1956. *Bull. Soc. géol. Fr. (6)* 7 6 (for 1957) 1958 : 611-624 portrait.

**Gigout, M.** Précisions nouvelles sur l'Ordovicien inférieur de la Méséta marocaine occidentale. *C. R. Acad. Sci., Paris* 242 1956 : 2738-2741.

**Glaessner, M. F.** *see* Sprigg, R. C.

**Goldring, R.** Lower Tournaisian Trilobites in the Carboniferous Limestone Facies of the south-west province of Great Britain and of Belgium. *Palaeontology* 1 3 : 231-244 pl. xliii.

**Gutstadt, A. M.** Upper Ordovician Stratigraphy in Eastern Interior Region. *Bull. Amer. Ass. Petrol. Geol.* 42 3 : 513-547 text-figs. 1-10.

**Hallam, A.** A Cambro-Ordovician Fauna from the Hecla Hoek Succession of Ny Friesland, Spitsbergen. *Geol. Mag., Lond.* 95 1 : 71-76.

**Harrington, H. J.** *see* Ross, R. J.

**Havliček, V., Horný, R., Chlupáč, I. & Šnajdr, M.** Führer zu den geologischen Exkursionen in das Barrandium. *Sbírka geologických průvodců Úst. úst. geol. No. 1* : 1-171 pls. i-xix text-figs. 1-5.

**Hemming, F. [ed.] (1).** Official List of Works Approved as Available for Zoological Nomenclature. First Instalment : Names 1-38. International Trust for Zoological Nomenclature, London : x+12 pp.

**Hemming, F. [ed.] (2).** Official List of Family-Group Names in Zoology. First Instalment : Names 1-236. International Trust for Zoological Nomenclature, London : xviii+38 pp.

**Hemming, F. [ed.] (3).** Official List of Generic Names in Zoology. First Instalment: Names 1-1274. International Trust for Zoological Nomenclature, London: xxxvi+200 pp.

**Hemming, F. [ed.] (4).** Official List of Specific Names in Zoology. First Instalment: Names 1-1525. International Trust for Zoological Nomenclature, London: xvi+206 pp.

**Hemming, F. [ed.] (5).** Official Index of Rejected and Invalid Works in Zoological Nomenclature. First Instalment: Names 1-58. International Trust for Zoological Nomenclature, London: x+14 pp.

**Hemming, F. [ed.] (6).** Official Index of Rejected and Invalid Family-Group Names in Zoology. First Instalment: Names 1-273. International Trust for Zoological Nomenclature, London: xii+38 pp.

**Hemming, F. [ed.] (7).** Official Index of Rejected and Invalid Generic Names in Zoology. First Instalment: Names 1-1169. International Trust for Zoological Nomenclature, London: xii+132 pp.

**Hemming, F. [ed.] (8).** Official Index of Rejected and Invalid Specific Names in Zoology. First Instalment: Names 1-527. International Trust for Zoological Nomenclature, London: xii+73 pp.

**Henningsmoen, G. (1).** Los Trilobites de las capas de Saukianda, Cámbrico inferior, en Andalucía: Con observaciones acerca de la deformación en los fósiles y sobre la clasificación de los *Redlichia*ceae y los *Elleipocephalacea*. Estud. geol. Inst. Mallada **14** 35-36 (for 1957) 1958: 251-271 pls. xxxvi-xxxix text-fig. 1.

**Henningsmoen, G. (2).** The Upper Cambrian Faunas of Norway: With Descriptions of Non-Olenid Invertebrate Fossils. Norsk geol. Tidsskr. **38** 2: 179-196 pls. i-vii tables 1-2.

**Hetzer, H.** Feinstratigraphie, Sedimentationsverhältnisse und

Paläogeographie des höheren Ordoviciums am SE-Rand des Schwarzburger Sattels. Beih. Geologie **7** No. 23: 1-96 pls. i-xi text-figs. 1-10.

**Hong, Y. C.** Wenlockian Stratigraphy of the Yangtze Gorges, with a Preliminary Study on Problems of the Palaeoecology of the Faunas. Acta palaeont. sinica **6** 4: 441-452 [Chinese with English summary p. 452] text-figs. 1-13 table.

**Horný, R. (1).** Nález fauny v křemencích drabovských - dř (Llandeilo) na vrchu Rumpál u Sklenné Hutě. Věstn. Úst. úst. geol. **27** 1-2 1952: 71-75 text-fig. 1.

**Horný, R. J. (2).** Předběžná zpráva o výzkumu facíí středočeského západního siluru. Věstn. Úst. úst. geol. **29** 1 1954: 32-38.

**Horný, R. (3).** Předběžná zpráva o výzkumu vrstev budňanských ež ve východním Barrandienu [Report on the biostratigraphical and facies investigation of the Budňany Beds in the eastern part of the Silurian in the Barrandian]. Věstn. Úst. úst. geol. **30** 3 1955: 127-136 text-figs. 1-3. [Russian & English summaries p. 136.]

**Horný, R. (4).** Nové výsledky biostratigrafického výzkumu siluru a devonu mezi Litní a Suchomasty [New results of the biostratigraphical investigation of the Silurian and Devonian in the area between Litéň and Suchomasty]. Věstn. Úst. úst. geol. **33** 5: 373-376 pl. i. [English summary p. 377.]

**Horný, R. & Chlupáč, I.** Biostratigrafický průzkum klabavských břidlic u Rokycan. Věstn. Úst. úst. geol. **27** 3-4 1952: 141-144.

**Horný, R. see Havlíček, V.**

**Horný, R. see Prantl, F.**

**Howell, B. F.** Upper Cambrian Fossils of Northampton County, Pennsylvania. Bull. Wagner Inst. Sci. Philad. **30** 4 1955: 45-56 pls. i-iv.

**Hsiang Li-wén** *see* Egorova, L. I.

**Huffman, G. G. et al.** Geology of the South and West Flanks of the Ozark Uplift, Northeastern Oklahoma. Bull. Okla. geol. Surv. No. 77 : 1-281 pls. i-vi figs. 1-22 tables I-XVI.

**Hunt, A. S.** *see* Whittington, H. B.

**Hupé, P. (1).** Essai de corrélation de quelques formations cambriennes et infracambridores, in *Les Relations entre Précambrien et Cambrien: Problèmes des séries intermédiaires*. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 1958 : 163-166 table.

**Hupé, P. (2).** [Contributions to discussions], in *Les Relations entre Précambrien et Cambrien: Problèmes des séries intermédiaires*. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 1958 : 23, 29.

**Hupé, P.** *see* Choubert, G.

**Ivshin, N. K.** [The Kuyandinsky faunal horizon of the Upper Cambrian of the interfluvial Oleny-Shidery (Central Kazakhstan).] Izv. Acad. Sci. Kazakhstan S.S.R. No. 121 [Geol. Ser. No. 16] 1953 : 26-33 text-figs. 1-2. [In Russian with summary in Kazakh.]

**Ivshin, N. K.** *see* Borukaev, R. A.

**Ivshin, N. K.** *see* Dvortsova, K. I.

**Jaanusson, V.** *see* Janusson, V.

**Janusson [Jaanusson], V. (1).** Jooni ehituslubjakivist Tallinna ümbruses. Loodusesõber, Tallinn 1940 April : 19-20 text-fig. 4. [In Estonian.]

**Janusson [Jaanusson], V. (2).** Ühe trilobiidi esmasleist. Eesti Loodus 8 (for 1940) 4-5 1941 : 208-209 text-figs. 119-120. [In Estonian : photo only seen.]

**Kauffman, E. G.** *see* Stumm, E. C.

**Kay, [G.] Marshall.** Ordovician Highgate Springs Sequence of Vermont and Quebec and Ordovician Classification. Amer. J. Sci. 256 2 : 65-96 text-figs. 1-11 tables 1-3.

**Keller, B. M.** [General survey of the stratigraphy of the Ordovician of the Chu-Ili mountains, in *The Ordovician of Kazakhstan II.*] Trud. geol. Inst. [GIN] S.S.S.R. 1 1956 : 5-49 text-figs. 1-10 tables 1-3. [Introduces several MS names of Chugaeva 1958 q.v.] [In Russian.]

**Khomentovsky, V. V.** *see* Repina, L. N.

**Khomentovsky, V. V.** *see* Zhuravleva, I. T.

**Kielan, Z.** *see* Erben, H. K.

**Kindle, C. H. & Whittington, H. B.** Stratigraphy of the Cow Head region, western Newfoundland. Bull. geol. Soc. Amer. 69 3 : 315-342 pls. i-viii text-figs. 1-8 tables 1-2.

**Klepper, M. R., Weeks, R. A. & Ruppel, E. T.** Geology of the Southern Elkhorn Mountains Jefferson and Broadwater Counties, Montana. Prof. Pap. U.S. geol. Surv. No. 292 1957 : 1-82 pls. i-viii text-figs. 1-6 tables 1-5. [Trilobita pp. 9, 11, det. A. R. Palmer.]

**Kobayashi, T. (1).** The Cambro-Ordovician formations in the vicinities of Huang-luo-hsien, west of Chin-chu in Eastern Jehol. Bull. geol. Inst. Manchoukuo No. 101 1941 : 97-106 text-fig. tables.

**Kobayashi, T. (2).** Miscellaneous Notes on the Cambro-Ordovician Geology and Palaeontology VI. A Few Cambrian Trilobites from South-western Shansi. J. geol. Soc. Japan 49 No. 591 1942 : 463-467 pl. xviii pars [Trans. palaeont. Soc. Japan No. 160 : 206-210 pl. xi pars.] [Photostat only seen.]

**Kobayashi, T. (3).** Miscellaneous Notes on the Cambro-Ordovician Geology and Palaeontology VII. An Occurrence of Dolichometopids in South Chōsen with a Summary Note on the Classification of the Dolichometopinae. J. geol. Soc. Japan 49 No. 591 1942 : 468-475 pl. xviii pars. [Trans. palaeont. Soc. Japan No. 161 : 211-218 pl. xi pars.] [Photostat only seen.]

**Kobayashi, T. (4).** Miscellaneous Notes on the Cambro-Ordovician Geology and Palaeontology XIII. Description of Two Complete Specimens of *Anomocarella*. *J. geol. Soc. Japan* 50 No. 598 1943 : 203-206 text-figs. 1-2 [Trans. palaeont. Soc. Japan No. 169 : 283-286] [Photostat only seen.]

**Kobayashi, T. (5).** Some Cambro-Ordovician Fossils from the Tan'gyang or Tanyo District, South Korea. *Trans. palaeont. Soc. Japan (ns)* No. 30 1958 : 211-216 text-figs. 1-4.

**Kramarenko, H. I.** [New species of trilobites of the genus *Evenkaspis* Kram. from Ordovician deposits of the basin of the R. Stony Tunguska.] Materials for the Principles of Palaeontology, Palaeont. Inst. Acad. Sci. S.S.R. No. 2 : 31-39 pl. iii pars. [In Russian.]

**Krestovnikov, V. N.** *see* Nagibina, M.S.

**Lazarenko, N. P.** [On the discovery of *Bathynotus* in the Cambrian deposits of the north of the Siberian platform.] *Sborn. stat. paleont. biostrat. Inst. geol. Arktiki*, Leningrad 8 : 15-19 pl. i. [In Russian.]

**Leanza, A. F.** *see* Ross, R. J.

**Leckwijck, W. van, Suter, G. & Termier, H. & G.** Contribution à la stratigraphie des terrains ordoviciens et gothlandiens de l'anticlinorium de Khouribga-Oulmès (Maroc central). Notes Serv. Min. Maroc No. 123 1955 : 9-44 map. [Trilobita det. H. & G. Termier.]

**Leech, G. B.** Canal Flats, British Columbia (Map and Preliminary Account). *Pap. geol. Surv. Canada* No. 54-7 1954 : 1-32 map. [Trilobita det. T. E. Bolton & R. V. Best.]

**Lermontova, E. V.** *see* Borukaev, R. A.

**Lermontova, E. V.** *see* Chernysheva, N. E.

**Likharev, B. K.** [ed.] [Stratigraphic dictionary of the U.S.S.R.] VSEGEI,

Moscow 1956 : 1283 pp. map 2 errata slips [In Russian]. [A French translation of this work is published as *Lexique stratigraphique international II* U.R.S.S. fasc. 1-3 1958 : 1738 pp., fasc. 4 1959 : 475 pp.]

**Lochman, C.** *Sulcocephalus* Wilson 1948 to replace *Berkeia* Resser, 1937, and *Burnetiella* to replace *Burnetia* Walcott, 1924. *J. Paleont.* 32 1 : 247.

**Lochman, C.** *see* Lochman-Balk, C.

**Lochman, C.** *see* Wheeler, H. E.

**Lochman-Balk, C. & Wilson, J. L.** Cambrian biostratigraphy in North America. *J. Paleont.* 32 2 : 312-350 text-figs. 1-18.

**Lotze, F. (1).** Estratigrafía y tectónica de las Cadenas paleozoicas Celtibéricas. *Publ. extran. Geol. Esp.* 8 1954-1955 [1956] : 1-313 pls. i-xvii text-figs. 1-44. [Translation of the article originally published in *Abh. Ges. Wiss. Göttingen Math.-phys. (nf)* 14 2 1929, with Addenda pp. 295-301.]

**Lotze, F. (2).** Zum Alter nordwestspanischer Quartzit-Sandstein-Folgen (Kürzere Mitteilungen zur Geologie Spaniens I). *Neues Jb. Geol. Mh.* 1957 10 : 464-471. [Trilobita det. K. Sdzuy.]

**Lotze, F. (3).** Zur Stratigraphie des spanischen Kambriums. *Geologie* 7 3-6 1958 : 727-750 folding table. [Trilobita det. K. Sdzuy.]

**Lu Yen-hao.** Upper Cambrian Trilobites from Santu, Southeastern Kueichou. *Acta palaeont. sinica* 2 2 1954 : 117-135 [Chinese], 136-152 [English] pls. i-iii.

**Männil, R. [M.] (1).** Huvitavaid kivistisi Jõhvi lademest Allikalt. *Loodusesõber, Tallinn* 1940 April : 18 text-fig. 3. [In Estonian.]

**Männil, R. M. (2).** [*Estoniops*—a new genus of trilobites of the family *Phacopidae*.] *Toimetised Eesti NSV Teaduste Akad.* [Izv. Acad. Sci. Est. SSR] 6 [Tech. Ser.] No. 4

(for 1957) 1958 : 385-387 pl. i. [In Russian, with Estonian summary & English summary (title : *Estoniops*—a new genus of *Phacopidae* (Trilobita)) pp. 387-388.]

**Männil, R. M. (3).** On the life and work of Academician F. B. Schmidt. *Geol. Inst. Uurimused* [Trud. Inst. Geol. Acad. Sci. Est. SSR], Tallinn 3 1958 : 5-15 portrait. [In Russian with Estonian and English summaries pp. 15-16.]

**Männil, R. M. (4).** [Trilobites of the families Cheiruridae and Encrinuridae from Estonia.] *Geol. Inst. Uurimused* [Trud. Inst. Geol. Acad. Sci. Est. SSR], Tallinn 3 1958 : 165-205, 210-212, pls. i-viii text-figs. 1-8 tables. [In Russian with Estonian summary p. 205 and English summary pp. 206-210.]

**Maher, J. C.** Detailed sections of pre-Pennsylvanian rocks along the Front Range of Colorado. Circular U.S. geol. Surv. No. 68 1950 : 1-20 map. [Fossils det. G. A. Cooper.]

**Maksimova, Z. A. (1).** [Trilobites of the Middle and Upper Devonian of the Urals and northern Mugodzhar.] *Trud. VSEGEI*, Moscow (ns) 3 1955 : 1-224 pls. i-xviii text-figs. 1-44 tables. [In Russian.]

**Maksimova, Z. A. (2).** [Class Trilobita, in O. I. Nikiforova [ed.], Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform.] *VSEGEI*, Moscow 1955 : 117-135 pls. vii, viii, xxi, xxx, xxxi, xlvi pars, lx text-fig. 16. [In Russian.]

**Manton, S. M.** see Tiegs, O. W.

**Marinov, N. A.** [Stratigraphy of the Mongolian People's Republic.] *Acad. Sci. U.S.S.R.*, Moscow 1957 : 268 pp. 24 text-figs. tables. [In Russian.]

**Maxey, G. B.** Lower and Middle Cambrian stratigraphy in northern Utah and southeastern Idaho. *Bull. geol. Soc. Amer.* 69 6 : 647-687 text-figs. 1-3.

**Montanaro Gallitelli, E.** Corallari e problematici del Permiano del Sosio (Sicilia). *C. R. XIX Congr. géol. int.* Alger 1952 2 1953 : 149-163 pl.

**Moreno Cardona, I. & Linares Rodríguez, A.** Trilobites en Sierra Nevada (Granada) (nota preliminar). *Estud. geol. Inst. Mallada* 6 12 1950 : 453-455 pl. lvi. [The same article as was published in *Bol. Soc. esp. Hist. nat. [Geol.]* 49 1-3 1951—see *Z. R.* 91 11 title 50]

**Müller, A. H.** Lehrbuch der Paläozoologie Band I Allgemeine Grundlagen. Gustav Fischer, Jena 1957 : 322 pp. 177 text-figs. [Trilobite distribution text-figs. 94, 99.]

**Nagibina, M. S., Krestovnikov, V. N., Chjan Bu-chun & Gatinsky, Yu. G.** [Recent discoveries of Paleozoic fauna in the mountain ridge Maly Khingan (China).] *C. R. Acad. Sci. U.R.S.S. (ns)* 123 5 : 910-913 text-figs. 1-2. [In Russian.]

**Nekhoroshev, V. P.** [The geology of Altai.] *VSEGEI*, Moscow : 261 pp. [Trilobita det. various authors.] [In Russian.]

**Nikiforova, O. I.** [Stratigraphy and brachiopods of the Silurian deposits of Podolia.] *Trud. VSEGEI*, Moscow 1954 : 178 pp. pls. 1-21, i-xviii text-figs. 1-36 [Trilobita p. 17 pl. 3 det. V. N. Weber.] [In Russian.]

**Nikiforova, O. I.** see Maksimova, Z. A.

**Nikitin, I. F.** [Brachiopods of the Cambrian and Lower Ordovician of the north-east of Central Kazakhstan.] *Acad. Sci. Kazakhstan S.S.R. (Inst. geol. Sci.)*, Alma-Ata 1956 : 143 pp. pls. i-xv text-figs. 1-22 tables. [In Russian.]

**Öpik, A. A. (1).** The Cambrian trilobite *Redlichia* : organization and generic concept. *Bull. Bur. Min. Resourc. Aust.* No. 42 : 1-38 pls. i-vi figs. 1-9.

**Öpik, A. A. (2).** The Middle Cambrian Trilobite *Centropleura* in Queensland. *Nature, Lond.* 182 4629 : 204 text-fig. 1.

**Öpik, A. A. (3).** [Contributions to discussions], in *Les Relations entre Précambrien et Cambrien : Problèmes des séries intermédiaires*. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 : 23, 29, 160, 237.

**Osmólska, H.** Famennian Phacopidae from the Holy Cross Mountains (Poland). *Acta palaeont. polon.* 32 : 119-141 pls. i-iv text-figs. 1-7. [Polish and Russian summaries pp. 141-148.]

**Palmer, A. R.** Morphology and ontogeny of a Lower Cambrian ptychoparioid trilobite from Nevada. *J. Paleont.* 32 1 : 154-170 pls. xxv-xxvi text-figs. 1-7 table 1.

Palmer, A. R. *see* Drewes, H.

Palmer, A. R. *see* Klepper, M. R.

**Paškevičius, J. (1).** Lietuvos TSR teritorijos viršutinio ordoviko stratigrafija [The stratigraphy of the Upper Ordovician in the territories of the Lithuanian SSR]. Darbai Lietuvos TSR Mokslo Akad. [B] 2 1957 : 109-123 4 tables [Lithuanian text], 124-126 [Russian summary].

**Paškevičius, J. (2).** Lietuvos TSR teritorijos apatinio siluro (llandovery ir uenlokio) stratigrafine schema [Stratigraphical scheme of the Lower Silurian (Llandovery and Wenlock) in the territories of the Lithuanian SSR]. Mokslo darbai Vilniaus Valstybinio V. Kapsuko vardo Univ. 19 [Biol. Geogr. Geol. 5] : 235-248 3 tables [Lithuanian text], 249-251 [Russian summary]. [Trilobita det. E. Balashova]

**Paškevičius, J. (3).** Viršutinio siluro (ludlovio) stratigrafijos klaušimai Lietuvoje [A contribution to the question of stratigraphy of the Upper Silurian (Ludlow) beds in Lithuania]. Moksliniai pranešimai Lietuvos TSR Mokslo Akad. [Geol. Geogr.] 7 : 115-124 2 tables [Lithuanian text], 125-127 [Russian summary], 128-129 [English summary].

**Pauly, E.** Das Devon der südwestlichen Lahnmulde und ihrer Randgebiete. *Abh. hess. Landesamt.*

Bodenforsch. No. 25 : 1-138 pls. i-vi text-figs. 1-41.

**Peltzmann, I.** Zum Paläozoikum der Kreuzeckgruppe. *Mitt. naturw. Ver. Steiermark* 88 : 246-247 2 figs.

**Petropavlovsky, V. V.** *see* Suvorova, N. P.

**Pillet, J.** Contribution à l'étude de quelques *Asteropyginae* (Trilobites). *Bull. Soc. géol. Fr.* (6) 81 : 3-20 pls. i, ii text-pl. text-fig. 1 tables 1-4.

Pillet, J. *see* Cavet, P.

**Pokrovskaya, N. V.** [Agnostids of the Middle Cambrian of Yakutia Part I.] *Trav. géol. Inst. U.R.S.S.* No. 16 : 96 pp. pls. i-v text-fig. table errata slip. [In Russian.]

**Pokrovskaya, N. V.** *see* Borukaev, R. A.

**Poueyto, A.** Contribution à l'étude des Grès inférieurs au Sahara septentrional, in *Les Relations entre Précambrien et Cambrien : Problèmes des séries intermédiaires*. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 : 191-196 [Trilobita p. 192 det. M. Thoral.].

**Poulsen, C. (1).** Contribution to the Palaeontology of the Lower Cambrian Wulf River Formation. *Medd. Grønland* 162 2 : 1-25 pls. i-vii text-figs. 1-2.

**Poulsen, C. (2).** Quelques remarques sur le Cambrien inférieur et l'Eocambrien du Groenland et d'autres régions septentrionales, in *Les Relations entre Précambrien et Cambrien : Problèmes des séries intermédiaires*. Colloq. int. Cent. nat. Rech. sci., Paris No. 76 : 25-29.

**Poulsen, V.** Contributions to the Middle Cambrian Paleontology and Stratigraphy of Argentina. *Mat.-fys. Medd. danske Vid. Selsk.* 31 8 : 1-22 pl. i text-fig. 1.

**Prantl, F.** Za Rudolfem a Emmou Richterovými. *Věstn. Úst. úst. geol.* 32 4 1957 : 233-234 portraits.

Prantl, F. *see* Erben, H. K.

Prantl, F. *see* Svoboda, J.

**Prantl, F. & Vaněk, J. (1).** Část popisná [Descriptive part], in R. Horný et al., K otázce hranice

nezi wenlockem a ludlowem v Barrandienu [On the limit between the Wenlock and the Ludlow in the Barrandian]. Sborn. Úst. úst. geol. **4** [Pal.] (for 1957) 1958: 229-256 [Czech text], 258-278 [English summary], 278 [Russian summary] pls. -xi.

Prantl, F. & Vaněk, J. (2). O odu *Perunaspis* Přibyl, 1949 [Trilobitae]. Čas. nár. Mus. [Přír.] **127** 1: 26-30 text-figs. 1-2 [English summary p. 30].

Přibyl, A. see Erben, H. K.

Rabien, A. (1). Zur Stratigraphie und Fazies des Ober-Devons in der Waldecker Hauptmulde. Abh. hess. Landesamt. Bodenforsch. No. 16 1956: 83 pp. pls. i-iii text-figs. 1-2 tables 1-2. [Trilobita listed p. 72 substantially as in Abh. hess. Landesamt. Bodenforsch. No. 9 1954 - see Z.R. **93** 11 (for 1955).]

Rabien, A. (2). Paläontologie und Biostratigraphie, in A. Rabien & A. Rabitz, Das Ober-Devon von Meschede. Notizbl. hess. Landesamt. Bodenforsch. **86**: 167-184 text-fig. tables.

Rabitz, A. see Rabien, A.

Renaud, A. Sur la présence d'*Homalonotus pradoanus* dans le Dévonien du Fret (Finistère). Bull. Soc. géol. min. Bretagne (ns) **1957** 2: 68-71 text-fig.

Repina, L. N. [Trilobites of the Bazaikh horizon.] C. R. Acad. Sci. U.R.S.S. (ns) **121** 6: 1075-1078 fig. 1 [pl.] [In Russian.]

Repina, L. N. see Zhuravleva, I. T.

Repina, L. N. & Khomentovsky, V. V. [Principal questions of the stratigraphy of the Lower Cambrian] [Abstract]. Bull. Soc. Nat. Moscow [Geol.] **1958** 4: 149-150. [In Russian.]

Richter, R. see Solle, G.

Richter, R. & E. see Prantl, F.

Robison, R. A. & Bentley, C. Upper Cambrian stratigraphy in central and western Utah [Abstract]. Bull. geol. Soc. Amer. **69** 12: 1702.

Röder, D. Unteres und mittleres Unter-Ems im Lieserprofil (Unter-Devon, Südost-Eifel). Notizbl. hess. Landesamt. Bodenforsch. **85** 1957: 129-145 pl. vii text-fig. 1.

Röhlich, P. (1). Stratigrafický a paleogeografický výzkum bohdaleckých vrstev středočeského ordoviku [The stratigraphical and paleogeographical investigation of the Bohdalec Beds of the central Bohemian Ordovician (Upper Caradocian)]. Věstn. Úst. úst. geol. **31** 2 1956: 71-81 text-figs. 1-2 [Russian and English summaries pp. 81-82.]

Röhlich, P. (2). O stáří ordovických břidlic u Voltuše na Rožmitálsku [On the age of the Ordovician shales near Voltuše in the district of Rožmitál]. Věstn. Úst. úst. geol. **31** 6 1956: 279-283 [Russian and English summaries p. 283.]

Rösler, A. (1). Das Unterdevon am SW-Ende des Taunusquarzit-Zuges von Katzenelnbogen (Rheinisches Schiefergebirge, Taunus) 1. Teil: Siegen-Stufe. Notizbl. hess. Landesamt. Bodenforsch. **82** 1954: 112-137 text-fig. 1.

Rösler, A. (2). Das Unterdevon am SW-Ende des Taunusquarzit-Zuges von Katzenelnbogen (Rheinisches Schiefergebirge, Taunus) 2. Teil: Ems-Stufe. Notizbl. hess. Landesamt. Bodenforsch. **84** 1956: 32-84 pl. v.

Rosenstein, E. (1). Adavere lademest (silur) Lääne-Eestis [The Adavere Formation (Silurian, Llandovery) in Western Estonia]. Eesti Loodus **7** (for 1939) 4-5 1940: 136-140 figs. 74-77. [Reprinted in Publ. geol. Instn Univ. Tartu No. 63 4 1941: 1-7.] [Estonian with English summary.]

Rosenstein, E. (2). Raikküla lade Tamsalu-Paide vahelisel alal [The Raikküla Formation (Silurian) in the district between the Railway Stations of Tamsalu and Paide]. Eesti Loodus **8** 2 1940: 94-102 figs. 60-63. [Reprinted in Publ. geol. Instn Univ. Tartu No. 63 3 1941: 1-10.] [Estonian with English summary.]

Ross, R. J., *Jnr.* (1). Trilobites in a pillow-lava of the Ordovician Valmy formation, Nevada. *J. Paleont.* **32** 3 : 559-570 pls. lxxxiii-lxxxiv.

Ross, R. J., *Jnr.* (2). Review of H. J. Harrington & A. F. Lanza, Ordovician Trilobites of Argentina [recorded Z.R. 94 11]. *Amer. J. Sci.* **256** 2 : 143-144.

Ross, R. J. *see* Berg, R. R.

Ruppel, E. T. *see* Klepper, M. R.

Rusconi, C. (1). Varias especies de Trilobitas y Esterias del Cámbrico de Mendoza. *Rev. Soc. Hist. Geogr. Cuyo, Mendoza* **1** 1946 : 239-246 pl. i.

Rusconi, C. (2). Nuevos trilobitas de la Quebrada Oblicua. *Rev. Mus. Hist. nat. Mendoza* **11** 1-4 : 81-92 pl.

Rusconi, C. (3). Nuevos fósiles cámbricos de El Totoral, Mendoza. *Rev. Mus. Hist. nat. Mendoza* **11** 1-4 : 93-107 pl.

Rusconi, C. (4). Trilobitas olénidos de Mendoza y de otras regiones del mundo. *Rev. Mus. Hist. nat. Mendoza* **11** 1-4 : 109-133 text-figs. 1-2.

Sanders, H. L. The Cephalocarida and Crustacean Phylogeny. *System. Zool.* **6** 1957 : 112-128, 148, text-figs. 1-9.

Sando, W. J. Lower Ordovician section near Chambersburg, Pennsylvania. *Bull. geol. Soc. Amer.* **69** 7 : 837-854 pls. i-ii text-figs. 1-2.

Sanz, R. *see* Almela, A.

Schäfer, W. Fossilisations-Bedingungen brachyurer Krebse. *Abh. senckenberg. naturf. Ges.* No. 485 [R. Richter Festschrift] 1951 : 221-238 pls. liii-liv text-figs. 1-12.

Schmidt, F. B. *see* Männil, R. M.

Schmidt, H. (1). Zur Frage des Genotypus von *Brachymetopus* McCoy (Trilobita, Devon bis Ober-Karbon). *Senckenbergiana leth.* **39** 3-4 : 153-156.

Schmidt, H. (2). Neubeschreibung von *Aulacopleurina peltata* (Novák) [Trilobita]. *Senckenbergiana leth.* **39** 3-4 : 157-161 pl. i.

Schwarz Anglade, A. [ed.]. *Lexique stratigraphique international V : Amérique Latine* fasc. 3 Venezuela. *Cent. nat. Rech. sci.*, Paris 1956 : 741 pp. 2 maps [Trilobita p. 416 det. C. E. Decker].

Sdzuy, K. (1). Neue Trilobiten aus dem Mittelkambrium von Spanien. *Senckenbergiana leth.* **39** 3-4 : 235-253 pls. i-ii.

Sdzuy, K. (2). Fossilien aus dem Tremadoc der Montagne Noire. *Senckenbergiana leth.* **39** 3-4 : 255-285 pls. i-iii text-figs. 1-3.

Sdzuy, K. (3). *Macropyge chermi* und *Macropyge sica* (Trilobita, Tremadoc). *Senckenbergiana leth.* **39** 3-4 : 287-288 text-figs. 1-3.

Sdzuy, K. (4). Tiergeographie und Paläogeographie im europäischen Mittelkambrium. *Geol. Rdsch.* **47** 1 : 450-462 text-figs. 1-2.

Sdzuy, K. *see* Lotze, F.

Shaw, A. B. (1). Correlation of the Paleozoic formations of Wyoming 2nd Edition. *Wyoming geol. Ass., 10th ann. Field Conf. Guidebook 1955* : annotated chart.

Shaw, A. B. (2). Stratigraphy and Structure of the St. Albans Area, Northwestern Vermont. *Bull. geol. Soc. Amer.* **69** 5 : 519-567 pl. i text-figs. 1-17 tables 1-4.

Sheng, S. F. The Ordovician Trilobites of Southwestern China. *Acta palaeont. sinica* **6** 2 : 169-182 [Chinese], 183-204 [English] pls. i-vii.

Siegfried, P. Von der Lebensweise der Trilobiten der Gattung *Illaenus* Dalm. *Beitr. zur Kunde Estlands [Naturwiss. Reihe]* **1** 1-2 1939 : 43-48 pls. i-ii text-fig. 1.

Simon, W. Erdgeschehen und Stammesgeschichte. *Geologie* **7** 3-6 : 808-825 text-figs. 1-7.

Sinclair, G. W. Age of the Ordovician Cobourg "formation" [Abstract]. *Bull. geol. Soc. Amer.* **69** 12 : 1643.

Snajdr, M. (1). Zbirovia vaněki nov. sp., nový trilobit z českého ordoviku [Zbirovia vaněki Nov. Sp., the New

Trilobite from the Bohemian Ordovician]. Sborn. Úst. úst. geol. **24** [Pal.] (for 1957) 1958 : 207–212 [Czech text], 213–214 [English summary], 215 [Russian summary] pls. i–ii text-figs. 1–2.

**Šnajdr, M. (2).** Trilobiti českého středního kambria [The Trilobites of the Middle Cambrian of Bohemia]. Rozpr. Úst. úst. geol. No. 24 : 1–236 [Czech text], 237–280 [English summary] pls. i–xli text-figs. 1–46.

**Šnajdr, M. (3).** Několik nových rodů trilobitů z čeledě Scutelluidae [Some new genera of trilobites of the family Scutellidae]. Věstn. Úst. úst. geol. **33** 3 : 177–182 pls. i–ii text-fig. 1 [English summary pp. 182–184].

**Šnajdr, M. see Havlíček, V.**

**Snodgrass, R. E. (1).** Crustacean metamorphoses. Smithson. misc. Coll. **131** 10 1956 : 1–78 text-figs. 1–28.

**Snodgrass, R. E. (2).** Evolution of Arthropod mechanisms. Smithson. misc. Coll. **138** 2 : 77 pp. 24 text-figs.

**Solle, G.** Die Watt-Fauna der unteren Klerfer Schichten von Greimerath (Unterdevon, Südost-Eifel) Zugleich ein Beitrag zur unterdevonischen Mollusken-Fauna. Abh. hess. Landesamt. Bodenforsch. No. 17 1956 : 47 pp. pls. i–vi text-figs. 1–7. [Some Trilobita det. R. Richter.]

**Spasov, Kh.** [The fossils of Bulgaria I Palaeozoic (ed. V. Tsankov)]. Acad. Sci. Bulgaria, Sofia : 1–90 pls. i–xvi text-fig. 1 [In Bulgarian with Russian summary pp. 78–80 and French summary (Aperçu sur la stratigraphie du paléozoïque fossilière en Bulgarie) pp. 81–83].

**Sprigg, R. C.** The Point Marsden Cambrian Beds, Kangaroo Island, South Australia. Trans. roy. Soc. S. Aust. **78** 1955 : 165–168. [Trilobita det. M. F. Glaessner].

**Stoyanow, A.** *Sonoraspis* and *Albertella* in the Inyo Mountains, California. Bull. geol. Soc. Amer. **69** 3 : 347–351 pl. i.

**Struve, W. (1).** Beiträge zur Kenntnis der Phacopacea (Trilobita), 1 : Die Zeliszkellinae. Senckenber-

giana leth. **39** 3–4 : 165–211 pls. i–iv text-figs. 1–16.

**Struve, W. (2).** Beiträge zur Kenntnis der Phacopacea (Trilobita), 2 : Acastavinae n. subfam. Senckenbergiana leth. **39** 3–4 : 221–226 text-figs. 1–4.

**Struve, W. (3).** Beiträge zur Kenntnis der Phacopacea (Trilobita), 3 : *Treveropyge* n. gen. und *Comura* (*Delocare*) n. subgen. (Asteropyginae). Senckenbergiana leth. **39** 3–4 : 227–234 text-figs. 1–2.

**Struve, W. (4).** Über einige Fälle von Homonymie bei Gattungen der Phacopacea. Senckenbergiana leth. **39** 3–4 : 301–302.

**Stubblefield, C. J. see** Direction 95.

**Stubblefield, C. J. see** Fowler, A.

**Stumm, E. C. & Kauffman, E. G.** Calymenid trilobites from the Ordovician rocks of Michigan. J. Paleont. **32** 5 : 943–960 pls. cxxiii–cxxiv text-figs. 1–2.

**Stumm, E. C. & Wright, J. D.** Check List of Fossil Invertebrates Described from the Middle Devonian Rocks of the Thedford-Arkona Region of Southwestern Ontario. Contr. Mus. Paleont. Univ. Mich. **14** 7 : 81–132.

**Šuf, J.** Příspěvek k poznání prvohorní zvířeny bludných balvanů na severní Moravě a ve Slezsku [Beitrag zur Kenntnis der paläozoischen Fauna erratischer Blöcke Schlesiens und Nordmährens]. Přír. Sborn. ostrav. Kraje **19** 3 : 321–340 [Czech text], 340–341 [Russian summary], 341–342 [German summary] pls. i–xv.

**Suter, G. see** Leckwijck, W. van

**Suvorova, N. P.** [New trilobites of the Lower Cambrian of Yakutia.] C.R. Acad. Sci. U.R.S.S. (ns) **122** 5 : 917–920 figs. 1–3, 4 [pl.] [In Russian.]

**Suvorova, N. P. & Petropavlovsky, V. V.** [On the Lena stage of the Lower Cambrian of the north of the Siberian platform.] C.R. Acad. Sci. U.R.S.S. (ns) **113** 3 1957 : 667–670 figs. 1–2. [In Russian.]

**Svoboda, J. & Prantl, F.** Barrandium—Geologie des mittelböhmischen Silur und Devon in Bildern. Úst. úst. geol., Prague : 1–118 pls. i–clxi [German translation of Czech original].

Tchernysheva, N. E. *see* Chernysheva, N. E.

Tchugaeva, M. N. *see* Chugaeva, M. N.

Teixeira, C. (1). Notas sobre Geologia de Portugal. O Sistema Cámbrico. Lisbon 1953: 22 pp.

Teixeira, C. (2). El Cámbrico de Portugal. Estud. geol. Inst. Mal-lada 10 23-24 1954: 355-369 pl. liv [Introduction by B. Meléndez pp. 355-6.]

Teixeira, C. (3). Notas sobre Geologia de Portugal. O Sistema Devónico. Lisbon 1954: 29 pp.

Teixeira, C. (4). Notas sobre Geologia de Portugal. O Sistema Permo-Carbónico. Lisbon 1954: 55 pp.

Teixeira, C. (5). Notas sobre Geologia de Portugal. O Sistema Silúrico. Lisbon 1955: 105 pp.

Termier, H. & G. *see* Leckwijck, W. van

Thadeu, D. Note sur le Silurien Beiro-Durien. Bol. Soc. geol. Portug. 12 1-2 1956: 1-38 pls. i-x [Lists of Tribolita as in this article also appear in Westerveld *et al.* q.v.]

Thorral, M. *see* Gauthier, H.

Thorral, M. *see* Poueyto, A.

Thorsteinsson, R. & Fortier, Y. O. Report of progress on the geology of Cornwallis Island, Arctic Archipelago, Northwest Territories (Report and Map). Pap. geol. Surv. Canada No. 53-24 1953: 1-25 pls. i-ii text-figs. 1-2 map tables.

Tiegs, O. W. (the late) & Manton, S. M. The evolution of the Arthropoda. Biol. Rev. 33 3: 255-337 text-figs. 1-18.

Tomeczykowa, E. Fauna z łupków graptolitycznych syluru niecki bardzianiskiej Gór Świętokrzyskich [Fauna from Silurian Graptolitic Shales of the Bardo Basin in the Święty Krzyż Mountains]. Kwart. Geol. 2 2: 321-343 text-figs. 1-2 tables [English summary pp. 343-345].

Tripp, R. P. Stratigraphical and geographical distribution of the named species of the trilobite superfamily Lichacea. J. Paleont. 32 3: 574-582 pl. lxxxv tables 1-2.

Tsankov, V. *see* Spasov, Kh.

Tschernysheva, N. E. *see* Chernysheva, N. E.

Tschugaeva, M. N. *see* Chugaeva, M. N.

Tulloch, W. & Walton, H. S. The Geology of the Midlothian Coalfield. Mem. geol. Surv. U.K.: vii+157 pp. pls. i-v text-figs. 1-20 [Palaeontology by R. B. Wilson and M. A. Calver.]

Vaněk, J. *see* Prantl, F.

van Leckwijck, W. *see* Leckwijck, W. van

Weber, V. N. *see* Nikiforova, O. I.

Weber, V. N. *see* Weber, V. N.

Walton, H. S. *see* Tulloch, W.

Wanless, H. R. Pennsylvanian faunas of the Beardstown, Glasford, Havana, and Vermont Quadrangles. Rep. Invest. Ill. geol. Surv. No. 205: 7-59 2 text-figs. 4 tables.

Webb, G. W. Middle Ordovician Stratigraphy in Eastern Nevada and Western Utah. Bull. Amer. Ass. Petrol. Geol. 42 10: 2335-2377 text-figs. 1-13.

Weber, J. N. E. *see* Best, R. V.

Weber, V. N. (1). On the genus *Thysanopeltis* Corda and the Uralian Brontidae. Mater. VSEGEI [Pal. & Strat.] 4 1945: 24-39 [Russian text], 39-44 [English summary] pls. iii-v text-figs. 2-5. [Offprint only seen].

Weber, V. N. (2). [Upper Silurian trilobites of the U.S.S.R.] Trud. VSEGEI, Moscow 1951: 55 pp. pls. i-vi. [In Russian.]

Weber, V. N. *see* Nikiforova, O. I.

Weeks, R. A. *see* Klepper, M. R.

Westerveld, J. *et al.* Roches éruptives, gîtes métallifères, et métamorphisme entre Mangualde et le Douro dans le Nord du Portugal. Geol. en Mijnb. (ns) 18 4 1956:

94-104 map text-figs. 1-2 [Also published in Bol. Soc. geol. Portug. 12 1-2 1956 : 101-127] [Trilobita pp. 96-97 det. D. Thadeu q.v.]

**Wheeler, H. E.** Revisions in the Cambrian Stratigraphy of the Pioche District, Nevada. Univ. Nevada Bull. 34 8 1940 : 40 pp. text-figs. 1-12. [Trilobita det. C. Lochman.]

**Whittard, W. F.** The Ordovician Trilobites of the Shelve Inlier, West Shropshire Part III. Palaeontogr. Soc. [Monogr.] 111 (for 1957) 1958 : 71-116 pls. x-xv text-figs. 5-6.

**Whittington, H. B.** Ontogeny of the Trilobite *Peltura scarabaeoides* from Upper Cambrian, Denmark. Palaeontology 13: 200-206 pl. xxxviii.

**Whittington, H. B.** *see* Kindle, C. H.

**Whittington, H. B. & Bohlin, B.** New Lower Ordovician Odontopleuridae (Trilobita) from Öland. Publ. palaeont. Instn Univ. Uppsala No. 22 : 37-45 pls. i-iii.

**Whittington, H. B. & Hunt, A. S.** Growth of the cephalon of *Cryptolithus* (Trilobita) [Abstract]. Bull. geol. Soc. Amer. 69 12 : 1662.

**Wilson, A. E.** *see* Burns, C. A.

**Wilson, J. L.** *see* Lochman-Balk, C.

**Wilson, R. B.** *see* Tulloch, W.

**Wolfenden, E. B.** Paleoecology of the Carboniferous reef complex and shelf limestones in northwest Derbyshire, England. Bull. geol. Soc. Amer. 69 7 : 871-898 text-figs. 1-12 tables 1-3.

**Wright, J. D.** *see* Stumm, E. C.

**Yanishevsky, M. E.** [The oldest trilobite from the Lower Cambrian Blue Clay—*Gdowia assatkini* gen. et sp. nov.] Voprosy Paleont. [Questions of Palaeontology], Lenin-grad 1 1950 : 32-40 pl. [In Russian.]

**Zhuravleva, I. T., Repina, L. N. & Khomentovsky, V. V.** [New data concerning the stratigraphy of the Lower Cambrian of the Mari Taiga.] C. R. Acad. Sci. U.R.S.S. (ns) 123 6 : 1092-1095 text-fig. 1. [In Russian.]

## II.—SUBJECT INDEX

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Popular work.—Trilobites, Bachmayer.

Reference book.—Stratigraphic dictionary of U.S.S.R., Likharev.

Text books.—General palaeontology, Müller; Palaeontology, Davitashvili (1), (2).

Obituary.—R. & E. Richter, Prantl; M. Thoral, Gauthier.

Biography.—Life and work of J. Barrande, Svoboda & Prantl; Fr. Schmidt, Männil (3).

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Selection of lectotypes.—*Acanthocnemis verrucosa* Hawle & Corda, *Agraulos carinatus* H. & C., *A. ceticephalus* (Barrande), *A. lobulosus* H. & C., *A. porosus* H. & C., *Condylopyge rex* (B.), *Conocoryphe mutica* H. & C., *Conocephalina emmrichi* (B.), *Ctenocephalus coronatus* (B.), *Diplorrhina affinis* H. & C., *D. triplicata* H. & C., *Eccaparadoxides*

*pusillus* (B.), *Ellipsocephalus tumidus* B., *E. vetustus* Pompeckj, *Endogramma salmii* H. & C., *Ger-maropyge germari* (B.), *Goniacanthus abbreviatus* H. & C., *Herse neubergii* H. & C., *Hydrocephalus carens* B., *Luhops expectans* (B.), *Monadina omicron* (B.), *Paradoxides rosae* Růžička, *Perneraspis conifrons* (P.), *Peronopsis cuneifera* (B.), *Phalacroma bibullatum* B., *Phanoptes pulcher* H. & C., *Pleuroctenium granulatum* (B.), *P. minutum* H. & C., *Sao hirsuta* B., *Selenosema thunii* H. & C., *Skreiaspis spinosus* (Jahn), *Solenopleurina tyrovicensis* R., *Staurogmus latus* H. & C., **Šnajdr** (2); *Agnostus* (*Homagnostus*) *rudis holmi* Westergård, *Glyptagnostus reticulatus* Angelin, *Henningsmoen* (2); *Ampyx serguncovae* Weber, *Bulbaspis ovulum* (W.), *Glaphurina dulanensis* W., *Holotrachelus punctillosum* Törnquist, *H. p. incurvus* W., *Isotelus romanovskii* W., *Metopolichas anderkenensis* W., *Sphaerexochus hisingeri* Warburg [illegitimate], **Chugaeva**; *Asaphus* (*Schizoporus*) *bröggeri* Schmidt, *lamanskii* S., *major* S., *Asaphus* (*Trematophorus*) *opplanatus* S., *delphinus* Lawrow, *eichwaldi* S., *holmi* S., *laevissimus* S., *laticauda* S., *minor* S., *nieszkowskii* S., *n. muts. jewensis* and *kegelerensis* S., *ornatus* Pompeckj, *pachyophthalmus* S., *plautini* S., **Balashova** (2); *Broeggerolithus broeggeri* (Bancroft), *Lloydolithus lloydii* corndensis (Salter), **Whittard**; *Cheirurus* (C.) *obtusatus* Hawle & Corda, *Miraspis mira crassicornis* (H. & C.), *Proetus* (*Cornuproetus*) *reussi* H. & C., *P. (Decoroproetus) decorus* Barande, *Prantl & Vaněk* (1); *Planiscutellum planum* (Hawle & Corda), **Šnajdr** (3); *Saukianda termieri* (Neltner & Poctey 1949), *Henningsmoen* (1).

**Selection of neotypes.**—*Bumasites bedpakensis* Weber 1948, **Chugaeva**; *Cheirurus* (C.) *insignis* (Beyrich), *Dicranopeltis scabra* (B.), **Prantl & Vaněk** (1); *Conocoryphe granulata* Hawle & Corda, *C. sulzeri* (Schlotheim), *Ellipsocephalus hoffi* (S.), *Hydrocephalus minor* (Boeck), *Paradoxides gracilis* (Boeck), *Peronopsis integra* (Beyrich), *Phalagnostus nudus* (B.), *Ptychoparia striata* (Emmrich), **Šnajdr** (2); *Paraceraurus* (Emmrich), **Šnajdr** (2); *Paraceraurus*

*aculeatus* (Eichwald 1860), **Männil** (4).

## STRUCTURE

**Terminology.**—Frontal area for preglabellar area, **Palmer**; Prefrontal lobes and furrows in *Pliomerina*, **Chugaeva**; Criticism of Shirley's term *papillate* for the glabellar lobes in buttressed Calymenids, **Stumm & Kauffman**.

**Segmentation.**—'Occipital similarity' discussed, concluded that occipital segment is a late acquisition to the cephalon, its pleural spines being the intergenal spines (or in *Olenellus* incorporated into the i.-g. spines); hypostome considered a sternite, the dorsal pre-glabellar area and anterior cephalic doublure (including the rostral plate) considered pleural (not axial) elements, **Öpik** (1).

**Cephalic spines.**—Within *Redlichia idonea* an occipital spine may be present or absent, **Öpik** (1).

**Eyes.**—Described in *Placoparina* (hitherto considered blind), **Whittard**; Lacking in *Aulacopleurina*, **Schmidt** (2); Occasional traces of eye spots in a new subsp. of *Phacops* (*Dianops*), **Maksimova** (1).

**Cephalic sutures.**—Marginal suture functional during ecdysis in young (but not in older) *Trimerococephalus* and *Dianops*, **Maksimova** (1).

**Facial sutures.**—In anaprotaspides of *Crassifimbra* facial sutures are proparian and appear to be continuous with rostral suture; in adults the sutures become opisthoparian and are continuous with connective sutures, **Palmer**; Proparian sutures in late metaprotaspis of *Parachangshania*, becoming opisthoparian in holaspis, **Chien**; Proparian early stages of *Peltura*, **Whittington**.

**Ventral sutures.**—In *Redlichia forresti* there are connective sutures (continuing the facial sutures) and a rostral suture but no hypostomal suture, the rostral plate being separated from the hypostome by a row of pits opposing the pits in the anterior border furrow of the craniidium, **Öpik** (1).

**Hypostome.**—Presence of a conspicuous hypostome in trilobites suggests that labral secretions and possibly eddy currents were developed for food collecting, Tiegs & Manton; In adult *Crassifimbra* hypostome and rostral plate probably not in direct sutural contact, in protaspis they may have been; hypostome of protaspis of *C.* has spinous posterior border, Palmer; Sections of maculae of Asaphid hypostomes show canals through the test which are interpreted as loci of sensory hairs (not as rudimentary eyes), Balashova (1).

**Thorax.**—Last three thoracic segments of *Centropleura* are linked with pygidium into a rigid non-articulating unit, Špík (2).

**Numbers of thoracic segments.**—11 or 12 in *Pseudosphaerexochus*, Männil (4).

**Segmental specialisation.**—In *Redlichia forresti* an axial elevation extending over 1st and 2nd glabellar lobes, an axial node on 1st thoracic segment, and axial spines on 4th and 12th thoracic segments, Špík (1).

**Pygidium.**—The inferred female pygidium of *Redlichia forresti* lacks a posterior axial doublure and may have been followed in life by an unprotected telson; a similar 'open' condition exists in the transitory pygidia of early meraspides of *Xystidura* but is later superseded by the 'normal' condition, Špík (1).

**Pygidial spines.**—Distribution of marginal pygidial spines in various families discussed, Weber (1); Suggested classification of posterior axial spines into 'telsonic' (affecting only the axis) and 'caudal' (affecting also the pygidial doublure), Špík (1).

**Panderian organs.**—Characters used as basis of subgeneric classification of *Asaphus*, Balashova (2).

**Ornamentation.**—Punctuation on internal moulds of *Crassifimbra*, Palmer; 'Facial lines' described on cranidia of *Redlichia* running parallel to and near anterior facial sutures but usually cut by them proximally, Špík (1).

**Structure of integument.**—Sections of integuments of various Asaphids show pore canals and also larger canals which are interpreted as the loci of sensory hairs, and which are grouped around the eyes, on the cephalic margin and on the hypostomal maculae, Balashova (1).

**Appendages.**—Discussed, Snodgrass (1); Comparison with other Arthropod limbs, Snodgrass (2); Filaments of outer ramus of *Ceraurus* leg are too large to be setae and were presumably branchial, Tiegs & Manton.

**Musculature.**—Pygidial muscle scars in *Phalagnostus*, Šnajdr (2).

**Sensory organs.**—Large canals (ending in external pits) through various parts of the test of Asaphids interpreted as the loci of sensory hairs, Balashova (1); Groups of large tubercles on the glabellas of some Devonian Phacopids interpreted as the bases of sensory hairs, Maksimova (1).

**Teratology.**—Asymmetrical and incomplete release of thoracic segments from transitory pygidia of *Crassifimbra*, Palmer; Deformed pygidia and thoracic segments in Paradoxids and *Conocoryphe*, Šnajdr (2); Asymmetrical pygidium of *Bojoscutellum*, Šnajdr (3); Asymmetrical pygidium of *Redlichia*, Špík (1).

## PHYSIOLOGY AND SEX

**Size.**—Dwarfing of Devonian Proetids is probably due to life on a silty bottom not to life in deep dark water, Maksimova (1).

**Enrolment.**—In L. Cambrian *Crassifimbra* thoracic pleural doublures form distal buttressing devices, articulation between segments is along inner horizontal parts of pleurae, Palmer.

**Blindness.**—Blindness in Proetinae considered an atavistic adaptation to poorly-lit deeper-water conditions, Erben (5); Blindness of M. & U. Devonian Phacopids and Proetids from Russia considered not to be due to aphotic deep water conditions

but to be associated with life on a silty bottom in shallow water, Maksimova (1).

**Sexual dimorphism.**—Suggested dimorphism in *Redlichia forresti* affecting [inferred male first] abundance (rare, frequent), size (small, large), thoracic axial spines (stout, slender), thoracic pleural spines (long, short), pygidia ('normal', 'open' i.e. without posterior axial doublure); interpretation of this dimorphism in terms of an evolutionary saltation not excluded, Öpik (1); Differences between contemporaneous *Dicranopeltis scabra scabra* and *D. scabra propinqua* may be sexual, Prantl & Vaněk (1); Differences between *Pseudobasilicus nobilis* and *P. n. caudiculatus* may be sexual, Thadeu.

## DEVELOPMENT

**Ontogeny.**—Suggested redefinition of anaprotaspis stage; development of *Crassifimbra* described from silicified material—anaprotaspides (0.4 mm.) have thin unfurrowed glabella merging with anterior border, marginal facial sutures, free rostral plate, posteriorly denticulate hypostome; subsequently (metaprotaspis, early and middle meraspid stages) eyes and facial sutures migrate dorsally, sutures become opisthoparian, librigenal spines appear, hypostome loses its posterior denticles; finally (late meraspid and holaspis stages) glabella retreats from anterior border and becomes tapered, Palmer; Protaspis and meraspid stages subdivided on numbers of pygidial segments e.g. metaprotaspis stage 3, meraspid stage 2-5 (2 in thorax, 5 in transitory pygidium); immature stages of Bohemian Paradoxids redescribed and considered to represent two fairly complete ontogenies, viz. *Hydrocephalus carens* (Šuf's larva—*H. carens*—*P. jahni*—*P. inflatus*—*P. spinosus*, showing large protaspis, late development of glabellar furrows, late maximum length of preglabellar area, long retention of segments in protopygidium until meraspid 0-9) and *Encaparadoxides pusillus* (Růžička's larva—*H. saturnoides*—*P. pusillus*—*P. orphanus*—*P. rugulosus*,

showing smaller protaspis, earlier development of glabellar furrows, earlier maximum of preglabellar area, shorter retention of segments in protopygidium which never has more than 4 segments); Raymond's larva considered to be probably not a Paradoxidid; ontogeny of *Sao hirsuta* redescribed with description of a 0.375 mm. anaprotaspis; developmental stages of *Paradoxides gracilis*, *Peronopsis cuneifera*, *Phalagnostus nudus*, *Skreiaspis spinosus*, Šnajdr (2); Development of *Parachangshania* described—anaprotaspis (0.31 mm.) has unsegmented glabella; during metaprotaspis stages (0.37-0.55 mm.) glabellar segmentation develops and protopygidium becomes distinct, facial sutures are first observed in latest metaprotaspis and are considered at that stage to be proparian; subsequently facial sutures become opisthoparian, the anterolateral tapering [larval] ridges of metaprotaspides are replaced by eye ridges which develop (in late metaprotaspides) behind them, anterior border and preglabellar field develop, changes in glabellar proportions occur, Chien; Redescription of Poulsen's 1923 growth-series of *Peltura scarabaeoides*, early meraspides (and probably the protaspides) accepted as having proparian facial sutures, but the supposed backward migration of the posterior branch of suture not confirmed, Whittington; Growth-series (incomplete) of *Hedinaspis*, Lu; Young stages of *Dipharus*, *Hebediscus*, *Lusatiops*, Chang (1); Development of fringe of *Cryptolithus* described in abstract, Whittington & Hunt; Meraspides of *Mendo-spidella* illustrated, V. Poulsen.

**Ecdysis.**—Salter'sche Einbettung is found in *Brachyura* in both dead animals and moulted exuviae, and by analogy may not be diagnostic of moulted exuviae in *Phacopidae*, Schäfer; Salter'sche Einbettung recorded in *Phacops* (*Nephranops* and *Cryphops*) and *Phacopidella* (*Ductina*), R. Richter's interpretation as exuviae in moulting position in quiet water upheld, Rabien (1); Phacopids illustrated in inferred moulting positions; suggested that in young individuals of *Trimeroceraspis* and *Dianops* the

marginal cephalic suture was used in ecdysis (the cephalon being undisturbed, as in *Ductina*), but that in older individuals the Salter'sche Einbettung mode of moulting was adopted (the cephalon being overturned and displaced), **Maksimova** (1).

### EVOLUTION AND CLASSIFICATION

**Phylogeny.**—Trilobites probably had a common origin with Chelicerae, **Tiegs & Manton**; Relations of several Cambrian families discussed; Marjumidae considered root of many N. American Upper Cambrian families, **Lochman-Balk & Wilson**; *Dalmanitinae* originate from *Dalmanitina*-group of *Zeliszkellinae*, **Struve** (1); *Redlichia* considered close to roots of *Olenellidae*, *Paradoxididae* and *Zacanthoididae*, but too young to be actually ancestral, **Öpik** (1).

**Extinction** of trilobites may be related to the rise of swiftly moving predators such as cephalopods and fishes, **Tiegs & Manton**.

**Atavism.**—Several specialisations of *Proetinae* (blindness, unusual facial sutures) considered atavistic, **Erben** (5).

**Abundance.**—Percentages of persisting trilobite genera show minima at the beginnings of the Ordovician, Silurian and Devonian systems following important regressions, **Simon**; In Upper Cambrian of N. America percentages of persisting genera show minima at *Crepicephalus/Aphelaspis*, *Elvinia/Conaspis* and *Saukia/Sympysurina* zone junctions, **Lochman-Balk & Wilson**; Charts of abundance and longevity, **Müller**.

**Morphological series.**—*Niobe* s.l. spp. showing development of notched hypostome; *Pareuloma brachymetopa*—*P. impunctata*—*Euloma* sp.—*E. (Proteuloma) monile* showing lengthening of eyes, **Sdzuy** (2).

**Adult convergence.**—Glabellas of *Ecparadoxides pusillus* and *Hydrocephalus carens* after different (though both hydrocephalid) early stages of development, **Šnajdr** (2).

**Mensuration.**—“Eye-index” for eye length/glabellar length expressed as percentage, **Struve** (1).

**Biometry.**—Regression lines calculated for three pairs of cranidial characters in *Crassifimbra walcotti*; slight but significant differences in proportions stated to exist between collections from three localities and assessed as intraspecific geographical variation, **Palmer**; Rectilinear relations plotted between width and length of glabella in young stages of *Parachangshania*, **Chien**; Graphs of various cephalic measurements given for several genera of *Zeliszkellinae*, **Struve** (1).

**Classification (principles of).**—Length of eyes not considered the only criterion in classification of *Elleipocephalacea*, **Henningsmoen** (1); Subgeneric division of *Asaphus* based on character of Pandarian openings, **Balashova** (2).

### ECOLOGY AND HABITS

**Ecology.**—Three biofacies recognised in N. American Upper Cambrian faunas—cratonic (“Pacific”) faunas), intermediate (mixed faunas), extracratonic euxinic (“Atlantic”) faunas), **Lochman-Balk & Wilson**; In L. Carboniferous reefs of Derbyshire trilobites are most common in reef and fore-reef limestones, **Wolfenden**.

**Habits.**—Suggested that in Illaenids the thorax and pygidium extended horizontally backwards at the level of the back of the (more vaulted) cephalon, hovering over the substratum during crawling and rolling up underneath the cephalon for protection or during repose, **Siegfried**.

**Locomotion** of trilobites was by metachronal movements of the limbs (for crawling or swimming), and was relatively slow compared with that of predators such as cephalopods and fishes, **Tiegs & Manton**.

**Feeding.**—Considered that trilobites lacked external jaws (the cephalic coxae not acting as such), and that labral secretions may have aided particle feeding, **Tiegs & Manton**.

**Cannibalism.**—Suggested to explain the rarity of [postulated] males of *Redlichia forresti*, Öpik (1).

**Parasitism.**—Structures interpreted as parasitic on *Hydrocephalus carens*, Šnajdr (2).

**Migration.**—Differences between Northern fauna (characterised by Solenopleurinae, *Bailiella*, *Bailiaspis*) and Mediterranean fauna (characterised by Saoinae, *Conocoryphe*) in Middle Cambrian of Europe interpreted as due to different environmental (? climatic) conditions within a continuous sea, rather than to physical barriers to migration, Sdzuy (4); Atlantic province *Lusatiops*, *Hebediscus* and *Dipharus* associated with *Redlichia* in Lower Cambrian of Hupeh, China; correlation of *Redlichia* beds, Chang (1); *Saukianda* fauna of S. Spain shows a mixing of elements of *Redlichia* fauna and *Olenellus* [s.l.] fauna, Henningsmoen (1); *Paedeumias* in Venezuela, Schwarck Anglade; *Parabolina* in Venezuela, Frederickson; Stratigraphic ranges of Bohemian Wenlock/Ludlow trilobites, Prantl & Vaněk (1); Subdivision and correlation of Cambrian of Eastern Siberia, Chernysheva (4); Correlation of Lower Cambrian, Repina & Khomentovsky; Correlation of Ordovician, Alikhova.

## DISTRIBUTION AND FAUNAS

**Cambrian.**—Canada (B.C.), Leech; China (Tsin-ling Mts.), Egorova & Hsiang; N. America, Lochman-Balk & Wilson; Portugal, Teixeira (1); U.S.A. (Nevada), Wheeler; U.S.A. (Vermont), Shaw (2); U.S.S.R. (Altai), Nekhoroshev; U.S.S.R. (Siberia), Chernysheva (4).

? **Cambrian.**—Austria (Kärnten), Peltzmann.

**Cambrian (Lower).**—Australia (S. Australia), Sprigg; China (Hupeh), Chang (1); Greenland, C. Poulsen (2); Greenland (N.W.), C. Poulsen (1); Morocco (Anti-Atlas), Choubert, Hupé (1); Portugal (Alemtejo), Teixeira (2); Spain (Andalusia), Henningsmoen (1); Spain (León), Lotze (2); U.S.A. (Nevada), Palmer; U.S.S.R. (Baltic), Yanishevsky;

U.S.S.R. (Kuznetsk Alatau), Zhuravleva et al.; U.S.S.R. (Siberia), Repina; U.S.S.R. (Yakutia), Suvorova; Venezuela, Schwarck Anglade.

**Cambrian (Lower & Middle).**—Spain, Lotze (3); U.S.A. (Idaho and Utah), Maxey; U.S.S.R. (Siberia), Chernysheva (3); U.S.S.R. (N. Siberia, Novaya Zemlya), Lazarenko; U.S.S.R. (Yakutia), Suvorova & Petropavlovsky.

**Cambrian (Middle).**—Argentina (Mendoza), Rusconi (1); Argentina (Mendoza and San Juan), V. Poulsen; Australia (Queensland), Öpik (2); Australia (W.A., N.T., Queensland), Öpik (1); China (Shansi), Kobayashi (2); China (Shantung), Kobayashi (4); Czechoslovakia (Bohemia), Havliček et al., Šnajdr (2); Europe, Sdzuy (4); Korea (South), Kobayashi (3); Spain (North), Sdzuy (1); U.S.A. (California), Stoyanow; U.S.S.R. (E. Siberia), Chernysheva (2); U.S.S.R. (Kazakhstan), Boruk-aev & Ivshin, Dvortsova; U.S.S.R. (Yakutia), Pokrovskaya.

**Cambrian (Middle/Upper).**—Argentina (Mendoza), Rusconi (3).

**Cambrian (Middle & Upper).**—Manchuria, Kobayashi (1); Newfoundland (West), Kindle & Whittington; U.S.A. (Montana), Klepper et al.; U.S.A. (Nevada), Drewes; U.S.A. (Wyoming), Shaw (1); U.S.S.R. (Kazakhstan), Nikitin.

**Cambrian (Upper).**—Argentina (Mendoza), Rusconi (2); China (Kweichow), Manchuria, Lu; China (Northeast), Chien; Denmark (Bornholm), Whittington; Korea (South), Kobayashi (5); Norway, Sweden, Henningsmoen (2); U.S.A. (Colorado), Berg & Ross; U.S.A. (Pennsylvania), Howell, Sando; U.S.A. (Utah), Robison & Bentley; U.S.S.R. (Kazakhstan), Ivshin.

**Ordovician.**—Baltoscandia, Männil (2); Canada (B.C.), Leech; Canada (Cornwallis I.), Thorsteinsson & Fortier; Canada (Hudson Bay, etc.), Burns; Czechoslovakia (Bohemia), Havliček et al.; Czechoslovakia (erratic blocks), Šuf; Estonia, Männil (4), Siegfried; Lithuania,

Balashova (3); Mongolia, Chernysheva (1), Marinov; Morocco, Leckwijk et al.; Portugal, Teixeira (5); Portugal (Douro and Beira), Thadeu, Westerveld et al.; U.S.S.R. (Altai), Nekhoroshev; U.S.S.R. (Baltic), Estonia, Balashova (2); U.S.S.R. (Kazakhstan), Keller; U.S.S.R. (Siberia), Maksimova (2).

**Ordovician (Lower).** — Britain, Germany, Sdzuy (3); Bulgaria (West), Spasov; Czechoslovakia, Horný & Chlupáč; Estonia, Janusson (2); France (Hérault), Britain, Germany, Sdzuy (2); Manchuria, Kobayashi (1); Morocco, France (Hérault), Gigout; N. America, Lochman-Balk & Wilson; Sahara, Poueyto; Spitzbergen (N.E.), Hallam; Sweden (Öland, Västergötland, Östergötland), Whittington & Bohlin; U.S.A. (Colorado), Berg & Ross, Maher; U.S.A. (Nevada), Ross (1); U.S.A. (Pennsylvania), Sando; U.S.A. (Vermont), Shaw (2); U.S.A. (Wyoming), Shaw (1); U.S.S.R. (Kazakhstan), Nikitin; Venezuela, Frederickson.

**Ordovician (Lower & Middle).** — Britain (Shropshire, Wales, etc.), Bohemia, Whittard; China (Southwestern), Sheng; Newfoundland (West), Kindle & Whittington; U.S.A. (Vermont), Canada (Quebec), Kay; U.S.S.R. (Pamir), Dyufur.

**Ordovician (Middle).** — Britain (Shropshire, Wales), Dean; Czechoslovakia, Horný (1); Estonia, Janusson (1), Männil (1); U.S.A. (Nevada & Utah), Webb; U.S.A. (Virginia), Whittington & Hunt; U.S.S.R. (Kazakhstan), Bykova.

**Ordovician (Middle & Upper).** — Bohemia, Britain, U.S.A., Tripp; Europe, N. Africa, N. America, China, Struve (1); U.S.A. (Eastern Interior), Gutstadt; U.S.A. (Michigan, New York, Ohio), Stumm & Kauffman; U.S.S.R. (Kazakhstan), Chugaeva; U.S.S.R. (Siberia), Kramarenko.

**Ordovician (Upper).** — Czechoslovakia, Röhlich (1), (2), Šnajdr (1); Germany (Thuringia), Hetzer; Lithuania, Paškevičius (1); N. America (East), Sinclair.

**Silurian.** — Canada (Cornwallis I.), Thorsteinsson & Fortier; Czechoslovakia, Havlíček et al., Svoboda & Prantl; Czechoslovakia (erratic blocks), Šuf; Estonia, Siegfried; Europe, Struve (2); Mongolia, U.S.S.R. (Tuva), Chernysheva (1); Portugal, Teixeira (5); U.S.A. (Oklahoma), Huffman et al.; U.S.S.R., Weber (2).

**Silurian (Lower).** — Britain (W. England), Curtis; Estonia, Männil (4), Rosenstein (1), (2); Lithuania, Balashova (3); Morocco, Leckwijk et al.; U.S.S.R. (Kazakhstan), Chugaeva, Keller; U.S.S.R. (Podolia), Nikiforova; U.S.S.R. (Siberia), Maksimova (2).

**Silurian (Lower & Middle).** — Britain, Scandinavia, Tripp; Canada (Ontario), Bolton; Lithuania, Paškevičius (2).

**Silurian (Middle).** — China (Hu-peh), Hong; N. America (no precise locality given), Best et al.

**Silurian (Middle & Upper).** — Czechoslovakia (Bohemia), Prantl & Vaněk (1); Poland (Lysa Gora), Tomeczykowa.

**Silurian (Upper).** — Czechoslovakia, Chlupáč (1), Horný (2), (3), (4), Šnajdr (3); Lithuania, Paškevičius (3); U.S.S.R., Weber (1).

**Devonian.** — Czechoslovakia, Svoboda & Prantl; Mongolia, Marinov; Portugal, Teixeira (3); U.S.S.R., Weber (1); U.S.S.R. (Altai), Nekhoroshev.

**Devonian (Lower).** — China (Manchuria), Nagibina et al.; Czechoslovakia, Chlupáč (1), (2), Horný (4), Šnajdr (3); Europe, Struve (2); Germany (Eifel), Röder, Solle; Germany (Rheinland), Rösler (1), (2); Mongolia, Chernysheva (1); U.S.A. (Oklahoma), Huffman et al.

**Devonian (Lower/Middle).** — France (Finistère), Renaud.

**Devonian (Lower & Middle).** — Czechoslovakia, Chlupáč (3), (4), Havlíček et al.; France (Armorican massif), Pillet; Germany, Struve (3); Germany (Harz), Bohemia, Chlupáč (9); Germany (Rheinland-Hessen), Pauly.

**Devonian (Middle).** — Canada (Ontario), Stumm & Wright; Czechoslovakia, Chlupáč (6), (7), Prantl & Vaněk (1), (2); France (Pyrénées-Orientales), Cavet & Pillet; Germany (Westerwald), Schmidt (2).

**Devonian (Middle & Upper).** — Germany (Sauerland), Rabien (1); U.S.S.R. (Urals, Kazakhstan), Maksimova (1).

**Devonian (Upper).** — China (Kwangsi), Chang (2); Germany (Westfalen), Rabien (2); Poland (Holy Cross Mts.), Osmólska.

**Carboniferous.** — Portugal, Teixeira (4); U.S.A. (Oklahoma), Huffman et al.

**Carboniferous (Lower).** — Australia (N.S.W.), Cvancara; Britain (N. England), Wolfenden; Britain (S.W. England), Belgium, France, Goldring; Britain (N. Ireland), Fowler; Britain (S. Scotland), Tulloch & Walton; Czechoslovakia (Moravia), Chlupáč (5), (8); Germany (Sauerland), Rabien (1); U.S.A. (Wyoming), Shaw (1); U.S.S.R. (Altai), Nekhoroshev.

**Carboniferous (Upper).** — Spitzbergen (West), Forbes et al.; U.S.A. (Illinois), Wanless.

**Permian.** — Sicily, Montanaro Gallielli.

### III.—SYSTEMATIC INDEX

**N.B.** — Since all the species of the group are fossil, the † used elsewhere in the *Zoological Record* to indicate fossils is here omitted.

Abadiellidae Hupé a synonym of Redlichiidae and referred tentatively to Neoredlichiinae p. 257, Henningsmoen (1).

*Acadoparadoxides* Šnajdr 1957 discussed and referred to Paradoxidinae p. 146, *A. sacheri* (Barrande 1852) holotype refigured p. 147 pl. xvi figs. 1–17, pl. xvii fig. 1, pl. xlvi fig. 9 (teratology), text-fig. 17 (4); *Paradoxides suboelandicus* Poletaeva may be related to *A.* p. 147, Šnajdr (2).

*Acanthaloma pectinata* Angelin 1852 p. 125 pl. Ix fig. 5, Maksimova (2).

*Acanthalomina* see *Leonaspis*.

*Acanthocnemis* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *A. verrucosa* H. & C. (lectotype chosen and figured pl. xliv fig. 3) which with *A. glabra* H. & C. is a synonym of *S. hirsuta* p. 204, Šnajdr (2).

*Acanthogramma* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *A. verruculosa* H. & C. which with *A. speciosa* H. & C. is a synonym of *S. hirsuta* p. 204, Šnajdr (2).

*Acantholoma* [sic] (*A.*) *laportei* (H. & C.) record of Erben from Harz discussed p. 164, Chlupáč (9).

*Acanthoparyphinae* see *Ainoa* gen. n.

*Acanthopyge* list of referred spp. p. 578, Tripp.

*Acanthopyge*—*Lobopyge* not a synonym p. 29, Prantl & Vaněk (2).

*Acanthopyge* (*Mephiarges*) *bifida* Edgell discussed p. 589, Erben (4).

*Acanthopyginae*—*An cyrop yge* Clarke probably belongs p. 585, Erben (2).

*Acastava* R. & E. Richter 1954 referred to *Acastavinae* subfam. n. p. 222, *A. atava* (Schmidt) text-figs. 1a–b, Struve (2).

*Acastavinae* subfam. n. [Dalmaniidae] p. 222 for *Acastava*, *Acastella* and *Acastellina*, Struve Senckenbergeriana leth. 39 3–4 1958.

*Acaste downingiae* (Murch.) p. 120, Paškevičius (3).

*Acaste downingiae* Murch. p. 42, Weber (2).

*Acaste exilis* Eichwald 1858 type of *Estoniops* gen. n. p. 386, Männil (2).

*Acaste* (*Acastoides*) *henni* Rud. Richter p. 35, Pauly.

*Acaste schmidti* R. Richter p. 40ff., *A.* sp. p. 51, *A.* cf. s. p. 75, Rösler (2).

*Acaste schmidti* Richter ? (det. R. Richter), *A.* sp. p. 12, **Solle**.

*Acaste* sp. p. 132, **Röder**.

cf. *Acaste* p. 36, **Leckwijck et al.**

*Acastella* Reed 1925 referred to *Acastavinae* subfam. n. p. 222, *A. spinosa* (Salter) text-fig. 3, *A. tiro* R. & E. Richter text-figs. 2a-b, *Struve* (2).

*Acastellina* R. & E. Richter 1954 referred to *Acastavinae* subfam. n. p. 222, *A. nolens nolens* (R. & E. R.) text-figs. 4a-c, *Struve* (2).

*Acastinae* discussed p. 171, *Ormathlops* removed to *Zeliszkellinae* p. 182, *Struve* (1).

*Acastinae* discussed and taken to include *Acaste*, *Acastoides*, *Phacopina*, *Kloucekia* p. 224-5; three genera separated off as *Acastavinae* subfam. n. [quod vide], *Struve* (2).

*Acastoides* see *Acaste*.

*Acerocare angustiformis* [sic] Lerm. pl. xiv fig. 11, **Nikitin**.

*Achattella* Delo 1935 referred to *Pterygometopinae* and taken to include (in addition to *achates* Billings) *kegelensis*, *kuckersianus* and *nieszkowskii* Schmidt spp. p. 385 (387), **Männil** (2).

*Acheilus* sp. p. 541, **Shaw** (2).

*Acidaspis hawlei* Barrande [type of *Selenopeltoides*] a synonym of *Miraspis mira crassicornis* p. 241; *A. grayi* B., " *A. rebellis*" B. stratigraphic ranges pl. xi, **Prantl & Vaněk** (1).

*Acidaspis solis* Öpik 1926 may belong to *Boedaspis* gen. n. p. 41, *A.* sp. Bohlin 1949 (fig. 8) referred to *Boedaspis ensifer* ? sp. n. [quod vide] expl. pl. iii fig. 6, **Whittington & Bohlin**.

" *Acidaspis* " cf. *ulrichi* Bassler p. 332, **Kindle & Whittington**.

*Acidaspis* sp. p. 444, **Hong**.

*Acidaspis* sp. ind. p. 24 pl. iv fig. 2, **Weber** (2).

*Acmarhachis* sp. p. 543, **Shaw** (2).

*Acontheus* sp. nov. [undescr.] p. 87, **Chernysheva** (4).

*Acrocephalaspis fides* [sic] Ivsh. pl. xiii fig. 13, **Nikitin**.

*Acrocephalaspis fidus* gen. et sp. nov. p. 29, **Ivshin**.

*Acrocephalites* sp. p. 36, **Nekhoroshev**.

*Acrocephalops* — assignment to *Bolaspidae* questioned p. 325, **Lochman-Balk & Wilson**.

*Acrocephalops* ? cf. *A. gracilis* Resser p. 676, **Maxey**.

*Acrohybus argutus* see *Blountia (Homodictya) imitatrix*.

*Acrolichas* see *Lichas*.

*Acrolichas punctatus* Web. p. 80 pl. viii figs. 18-20, pl. ix figs. 1-4, *A.* sp. (cf. *A. punctatus*) p. 127, **Chugaeva**.

*Actinopeltis completus* (Barr.) p. 73, **Horný** (1).

*Aculeodiscus* Šnajdr 1950 [sic] discussed p. 43, *A. bohemicus* Š. 1950 holotype refigured p. 46 pl. i figs. 1-22 text-figs. 4 (A-C), 5 (D-F), *A. ? borealis* (Westergård) so referred p. 45, **Šnajdr** (2).

*Agasella* Lermontova & Chernysheva gen. n. [? *Liostracidae*] p. 75 for type *A. falcata* L. & C. sp. n. p. 76 pl. i figs. 7-8 Cambrian (Middle) U.S.S.R. (E. Siberia), **Chernysheva** Trud. VSEGEI 1 1950.

*Agasella falcata* Lerm. p. 39, **Chernysheva** (3).

*Agnostid* p. 326, **Kindle & Whittington**.

*Agnostid* No. 1 [Shaw 1952] p. 543, **Shaw** (2).

*Agnostidae* McCoy 1849 discussed p. 48, **Šnajdr** (2).

*Agnostidae* — morphology and orientation discussed pp. 12-19 text-fig. 1, **Pokrovskaya**.

*Agnostidae* see *Dolichagnostus* and *Pseudophalacroma* genn. n. and *Hypagnostinae* subfam. n.

*Agnostidea* p. 127, **Chugaeva**.

*Agnostus cyclopygeiformis* Sun p. 335, **WANG in Egorova & Hsiang**.

*Agnostus fabius* Billings, *A. dusli* Novák and *A. lentiformis* Angelin probably not referable to *Trinodus* p. 562, Ross (1).

*Agnostus (Agnostus) pisiformis* Linnaeus 1757 p. 181 pl. v figs. 1–12, *A. (Homagnostus) obesus* Belt 1867 with synonym *A. p.* var. *socialis* Tullberg 1880 and including *A. p.* of Kjerulf 1865 p. 182 pl. v figs. 13–16, *A. (H.) rufus holmi* Westergård 1922 lectotype selected p. 184, Henningsmoen (2).

*Agnostus* sp. [Šnajdr 1957] p. 70 pl. xlvi fig. 3, Šnajdr (2).

*Agnostus* sp. p. 118, *A. ? sp.* p. 116, Chugaeva.

*Agnostus ? sp.* p. 124 (140) pl. i fig. 1, Lu.

*Agraulinae* see *Inoyellaspis*.

*Agraulopsis* Růžička 1939 a synonym of *Ptychoparia* [quod vide] p. 184, Šnajdr (2).

*Agraulos* Hawle & Corda 1847 discussed p. 173, *A. ceticephalus* (Barrande 1846) lectotype chosen and figured [with synonyms *A. carinatus*, *A. lobulosus* (both lectotypes chosen), *A. delphinocephalus* H. & C. spp., and excluding records of B. 1852 partim (pl. 10 figs. 1–5 to *Skreiaspis spinosus*, fig. 7 possibly to *Solenopleurina tyrovicensis*), Wurm 1925, Roch 1930] p. 174 pl. xxxvii figs. 1–13, text-fig. 37 (reconstr.); *A. porosus* H. & C. (lectotype selected) a synonym of *Skreiaspis spinosus* p. 179, Šnajdr (2).

*Agraulos*—*Proampyx* Frech not a synonym p. 454, Sdzuy (4).

*Agraulos antiquus* Sdzuy MS p. 465, Lotze (2).

*Agraulos longicephalus* Hicks p. 731ff., *A. antiquus* n. sp. (Sdzuy MS) p. 737, Lotze (3).

*Agraulos* spp. a and b R. & E. Richter 1929 referred to *Alanisia hastata* sp. n. p. 239, Sdzuy (1).

*Agraulos* sp. p. 333, Kindle & Whittington.

*Aidarella vigilans* Lerm. pl. xiv figs. 8–9, Nikitin.

*Ainoa* gen. n. [Acanthoparyphinae] for type *A. maëruënsis* sp. n. p. 186 pl. iv figs. 3–4, pl. v fig. 1 text-figs. 6 a–6 Ordovician (Middle) Estonia, Männil Geol. Inst. Uurimused 3 1958.

*Alanisia* Hupé referred to Elleipsocephalinae p. 260, *A. guillermoi* (R. & E. Richter) with synonym *Camaraspis onyx* R. & E. R. p. 266, Henningsmoen (1).

*Alanisia hastata* n. sp. (Sdzuy MS) p. 731, Lotze (3).

*Alanisia hastata* sp. n. for *Agraulos* spp. a and b R. & E. Richter 1929 p. 239 pl. i fig. 14 Cambrian (Middle) Spain (Zaragoza), *A. onyx* (R. & E. R. 1940) so referred, Sdzuy Senckenbergiana leth. 39 3–4 1958.

*Albertella* aff. *stenorhachis* Rasetti p. 348 pl. i fig. 1, Stoyanow.

*Albertellidae* Hupé—erection considered not justified p. 85, Šnajdr (2).

*Aldanaspis venustus* Tchern. p. 36, Nekhoroshev.

*Aldonaia (Protaldonaia)* [n. subg.] *morenica* n. sp. (Sdzuy MS) p. 743, Lotze (3).

*Alokistocare* Lorenz 1906 discussed, *A. elongatum* sp. n. p. 11 pl. i figs. 11–12, *A. australe* sp. n. p. 13 pl. i figs. 13–15 Cambrian (Middle) Argentina (Mendoza and San Juan); *A. modestum* Lochman 1952 probably referable to *Kistocare* p. 11, V. Poulsen Mat.-fys. Medd. danske Vid. Selsk. 31 8 1958.

*Alokistocare ? ornata* Lermontova MS p. 50, Borukaev & Ivshin.

*Alokistocare subcoronatum* (Hall & Whitfield) p. 676, Maxey.

*Alokistocare* p. 329, ? *A. sp.* p. 334, Kindle & Whittington.

*Alokistocarella mexicana* Lochman from Argentina p. 15 pl. i figs. 16–19, V. Poulsen.

*Alokistocarella* ? n. sp. [undescr.] p. 537, Shaw (2).

*Alueva undulata* n.g. n. sp. (Sdzuy MS) p. 730, Lotze (3).

*Amecephalina* Poulsen 1927 discussed p. 11, *A. argentina* (Kayser) pp. 15, 18, **V. Poulsen**.

*Amecephalus* discussed p. 11, *A. cormoranus* Rusconi discussed and considered incerti ordinis p. 17, **V. Poulsen**.

*Ameura sangamonensis* (Meek & Worthen) p. 46, Wanless.

*Amphilichas* list of referred spp. p. 576, *A. shallopensis* Twenhofel referred to *Arctinurus* with synonym *Am. ? anticostiensis* Northrop p. 578, *A. ardmillanensis* (Reed)—*Lichas* (*Acrolichas*) *tenuilobatus* R. [holotype refigured] a synonym p. 580 pl. lxxxv fig. 12, *A. obtusicaudatus* Troedsson provisionally a synonym of *Hemiariges warburgae* (T.) p. 580, Tripp.

*Amphilichas karakanensis* var. *disjunctus* var. n. for *A. aff. k.* of Weber 1948 p. 78 pl. ix figs. 5–7 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Amphion* cf. *A. salteri* of Ulrich 1909 referred to *Pseudocybele* ? sp. p. 851, Sando.

*Amphoton decrato* (Walcott) var. *spinula* var. n. including *A. parallela* of Endo & Resser 1937 partim (pl. 38 fig. 13) p. 474 pl. xviii figs. 12–13, *A. microlops* sp. n. p. 474 pl. xviii fig. 11 Cambrian (Middle) Korea (South), Kobayashi J. geol. Soc. Japan 49 No. 591 1942.

*Amphoton typica* Sun sp. nov. [nom. nud.] p. 499n, GRABAU 19 [omitted Z.R. 84 11].

*Ampyx* Dalman 1826 discussed p. 20, *A. serguncovae* Web. holotype [lectotype] designated p. 21 pl. i figs. 6–10 text-fig. 4 (reconstr.), *A. tenuispinosus* [*tenuispinosum* on pl. expl.] sp. n. Ordovician (Middle) U.S.S.R. (Kazakhstan) p. 23 pl. i figs. 11–17, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Ampyx chinensis* Weller p. 186 pl. vii fig. 7, Sheng.

*Ampyx rostratus* Sars 1835 p. 24 pl. xiii figs. 9–11, Balashova (3).

*Ampyx* sp. p. 324ff., Kindle & Whittington.

*Ampyx* sp. p. 44, Nekhoroshev.

*Ampyxina* Ulrich 1922 discussed p. 33, *A. biloba* sp. n. p. 34 pl. iii figs. 5–8 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Anabaraspis splendens* Lermontova 1951 discussed and validity doubtful as no holotype designated, sp. probably heterogeneous p. 104, Šnajdr (2).

*Anabaraspis splendens* Lerm. listed fig. 2, Suvorova & Petropavlovsky.

*Ancyropyge* Clarke probably belongs to Acanthopyginae and may be related to *Radiolichas* p. 585, Erben (2).

*Andalusiana* subg. n. see *Kjerulzia*.

*Andesaspis* (*Parabolinopsis*) *sinensis* sp. n. p. 187 pl. i figs. 1a–c Ordovician (Lower) China (Szechuan and Kweichow), Sheng Acta palaeont. sinica 6 2 1958.

*Anomecephalus* see *Anomecephalus*.

*Anomalocephalus* n. sp. p. 675, Maxey.

*Anomecephalus* [recte *Anomecephalus*] *satpakensis* Ivshin MS pl. xiv fig. 3 pars a, Nikitin.

*Anomocare lermontovae* Ivshin sp. nov. p. 44, *A.* sp. (like *A. salairensis* Lermontova) p. 57, Borukaev & Ivshin.

*Anomocare* sp. p. 36, Nekhoroshev.

*Anomocarella brevifrons* p. 475, Kobayashi (3).

*Anomocarella temenus* (Walcott), "A." sp. p. 100, Kobayashi (1).

*Anomocarella temenus* (Walcott) [with synonym *Psilaspis manchurensis* Resser & Endo—type of *P.*] complete individual p. 203 text-figs. 1a–b, *A.* cfr. *t.* p. 204 text-figs. 2a–b, Kobayashi (4).

Anomocaridae see *Cayupania* gen. n.

Anomocaridae see *Glyphasellus*.

Anomocaridae see *Forchhammeria* gen. n.

*Anomocarina lata* Tchern. MS p. 90, Chernysheva (4).

*Anomocarina* ? sp. p. 907, Dvortsova.

*Anomocarioides polymensis* Ivshin sp. nov. p. 44ff., Borukaev & Ivshin.

*Antagmopleura* see *Chondragraulos*.

*Antagmus typicalis*, *A.* ? *simplex* p. 528, Shaw (2).

Antatasiidae see Antatasiinae.

Antatasiinae Hupé referred to Elleipsocephalidae p. 260, but *Antatasia* may really belong to Kingaspidae or Elleipsocephalinae p. 259, Henningsmoen (1).

*Apatocephalus* sp. p. 44, Nekhoro-shev.

*Apatocephaloides* sp. p. 329, Kindle & Whittington.

*Apatocephalus brevifrons* Thoral probably belongs to a Remopleurid such as *Remopleuridiella* p. 275, Szdzu (2).

*Apatocephalus gillulyi* sp. n. p. 566 pl. lxxxiii figs. 9-13 Ordovician (Lower) U.S.A. (Nevada); *A. canadensis* Kobayashi 1953 may be a synonym of *A. serratus* (Boeck) p. 566, Ross J. Paleont. 32 3 1958.

*Aphelaspis formosus* sp. nov., *A. nobilis* sp. nov., *A. boschbekulensis* sp. nov. p. 29, Ivshin.

*Aphelaspis walcotti* vertical range, Shaw (1).

*Aphelaspis* (2 spp.) pl. xiii fig. 4, *A. nobilis* Ivsh. pl. xiii fig. 8, Nikitin.

Apianurinae Whittington 1956 emend. revised diagnosis p. 38, see *Boedaspis* gen. n., Whittington & Bohlin.

*Apolenopleura* p. 330, ? *A.* sp. p. 322, Kindle & Whittington.

*Arapahoia* vertical range, Shaw (1).

*Arapahoia polita* Resser p. 11, Klepper et al.

*Arctinurus* list of referred spp. p. 575, *A. shallopensis* (Twenhofel) for *Amphilichas* s. T. with synonym *Am. ? anticostiensis* Northrop p. 578, Tripp.

*Arctinurus* cf. *boltoni* (Bigsby) table XI, Bolton.

*Arctinurus* sp. p. 139, Curtis.

*Arges anglicus* Beyrich a synonym of *Hemiarges bucklandi* (Milne Edwards) [quod vide] p. 580, Tripp.

*Arges consanguineus* Clarke referred to *Lobopyge* p. 589, Erben (3).

*Arionellus* see *Agraulos*.

*Armonia* ? *franklinensis* p. 537, Shaw (2).

*Asaphellus changi* sp. n. p. 188 pl. ii figs. 3a-e, *A. ? hunghuayuanensis* sp. n. p. 188 pl. iii fig. 4 Ordovician (Lower) China (Kweichow), Sheng Acta palaeont. sinica 6 2 1958.

Asaphid p. 324, Asaphid pygidium (ribbed) p. 325, Kindle & Whittington.

Asaphid indet. p. 218ff., Dean.

Asaphid pygidium p. 15, Leckwijck et al.

Asaphidae Burmeister 1843 placed on Official List of Family-Group Names, Opinion 510.

Asaphidae discussed p. 36, Chugava.

Asaphidae see *Tungtzuella* gen. nov.

Asaphids p. 845, Sando.

*Asaphopsis*—*Taihungshania welleri* Sheng and *T. w.* var. *brevica* S. referred p. 192-3, Sheng.

*Asaphus* Brongniart 1817 suppressed and placed on Official Index, Opinion 510.

*Asaphus* Brongniart 1822 validated and placed on Official List of Generic Names, type designated *Entomostracites expansus* Wahlenberg 1821 [lectotype illustrated pl. iv figs. 1-5] which is placed on Official List of Specific Names, Opinion 510.

*Asaphus* Brongniart (emend. An-gelin) discussed pp. 386, 422, *Asaphus (Schizophorus)* subgen. n. p. 387 for type *A. (S.) lepidurus* Nieszkowski p. 389 pl. i figs. 3, 31, pl. ii fig. 3, *A. (S.) bröggeri* Schmidt emend. Lamansky [v.l.] p. 388 pl. i fig. 1, pl. ii figs. 1-2, *A. (S.) expansus* Dalman [so referred and attributed] p. 391 pl. i figs. 2, 20, 32, pl. ii fig. 14, *A. (S.) lamanskii* S. [v.l.] p. 392 pl. i fig. 33, pl. ii fig. 7, pl. v figs. 9-10, *A. (S.) acuminatus* Boeck [lectotype only] p. 394 pl. i fig. 4, pl. v fig. 3, *A. (S.) raniceps* D. p. 395 pl. i figs. 5, 23, pl. ii fig. 4, *A. (S.) major* S. [v.l.] including *A. r. of S.* 1901 *partim* (pl. 1 fig. 8) p. 396 pl. i fig. 6, pl. ii fig. 5, *Asaphus (Trematophorus)* subgen. n. p. 397 for type *A. (T.) eichwaldi* S. [v.l.] p. 399 pl. i fig. 25, pl. ii figs. 12-13, *A. (T.) pachyophthalmus* S. [v.l.] p. 397 pl. i figs. 22, 35, pl. ii figs. 10, 11, pl. iv fig. 21, *A. (T.) minor* S. [v.l.] p. 398 pl. ii fig. 6, pl. iv fig. 7, *A. (T.) knyrkoi* S. [neotype only] p. 401 pl. i fig. 27, pl. v figs. 6-8, *A. (T.) applanatus* S. [v.l.] p. 402 pl. i figs. 11, 38, pl. iv fig. 20, pl. v fig. 5, *A. (T.) platyurus* Angelin p. 404 pl. i fig. 29, pl. iii fig. 1, *A. (T.) delphinus* Lawrow [v.l.] p. 404 pl. i figs. 12, 19, pl. iii figs. 4, 5, *A. (T.) cornutus* Pander emend. nov. p. 405 pl. i figs. 10, 30, pl. iv figs. 17-19, *A. (T.) holmi* S. [v.l.] [lectotype only] p. 406, *A. (T.) kotlukowi* Lesnikowa MS [sp. n.] [lectotype only] p. 407 pl. i fig. 26, pl. iv figs. 8-11, *A. (T.) punctatus* L. MS [recte 1949] [lectotype only] p. 408 pl. iv figs. 1-6, *A. (T.) intermedius* L. MS [sp. n.] [neotype only] p. 409 pl. iv fig. 12, [13-15] Ordovician (Middle) U.S.S.R. (Leningrad), *A. (T.) kowalewskii* Lawrow p. 410 pl. i figs. 9, 21, pl. iv fig. 16, pl. v fig. 2, *A. (T.) laevissimus* S. [v.l.] p. 411 pl. i figs. 14, 16, 28, pl. v fig. 4, *A. (T.) laticaudatus* [sic] S. [v.l.] p. 412 pl. iii figs. 2-3, *A. (T.) latus* Pander p. 413 pl. i figs. 24, 36-37, pl. v fig. 11, *A. (T.) plautini* S. [v.l.] p. 415 pl. i figs. 13, 17, 34, pl. ii fig. 15, *A. (T.) ornatus* Pompecki [v.l.] p. 416 pl. i figs. 8, 15, pl. ii figs. 8-9, *A. (T.) devexus* Eichwald [lectotype only] p. 417 pl. iii figs. 6-7, *A. d. var. applanata* S. pl. v fig. 1, *A. (T.)*

*nieszkowskii* S. [v.l.] [lectotype only] p. 418 pl. i figs. 7, 18, 39, *A. (T.) n. mut. ifferensis* S. [no types chosen] p. 420, *A. (T.) n. mut. jewensis* S. [v.l.] [lectotype only] p. 420 pl. v fig. 12, *A. (T.) n. mut. kegelensis* S. [v.l.] [lectotype only] p. 421 [with the exceptions noted, lectotypes and neotypes are chosen for all spp., the apparently valid lectotypes being indicated above by v.l.], *Balashova* Trud. VNIGRI (ns) 78 1953.

*Asaphus* ? *asperoensis* Rusconi 1952 and *A. ? inexcavatus* R. 1946 referred to *Glossopleura* p. 8, **V. Poulsen**.

*Asaphus devexus* discussion of horizon p. 19, **Janusson** (1).

*Asaphus expansus* Dalm., *A. lepidurus* Nies. sections of integuments showing canals p. 509 text-fig. 1, *Balashova* (1).

*Asaphus gigas* var. *hupeiensis* Sun referred to *Isotelus* [quod vide] p. 198-9, *Sheng*.

*Asaphus inexcavatus* sp. n. p. 241 pl. i fig. 4, *A. limbatus* sp. n. p. 242 pl. i fig. 5 Cambrian (Middle) Argentina (Mendoza), *Rusconi* Rev. Soc. Hist. Geogr. Cuyo 1 1946.

*Asaphus (Pseudobasiliiscus) [sic] ingens* Barr. p. 73, *Horný* (1).

*Asaphus nasutus* Conrad 1841 type of *Neoprobolium* gen. n. p. 301, *Struve* (4).

*Asaphus platynurus* [sic] Ang. p. 44, *Nekhoroshev*.

*Asaphus platyurus* Angelin 1854 p. 13 pl. iii figs. 1-2, *A. cf. cornutus* p. 9, *Balashova* (3).

*Asaphus seticornis* Hisinger 1840 [type of *Tretaspis*] placed on Official List of Specific Names, *Opinion 505*.

*Asperocare* gen. n. [Dolichometopidae] p. 8 for type *A. argentinum* sp. n. p. 9 pl. i figs. 5-10 text-fig. 1 Cambrian (Middle) Argentina (Mendoza), **V. Poulsen** Mat.-fys. Medd. danske Vid. Selsk. 31 8 1958.

*Aspidagnostus acutifrons* (Troedsson) p. 336, *Ho* in *Egorova & Hsiang*.

*Asteropyge (Metacanthina)* Pillet 1953 [recte 1954] discussed p. 14, *A. (M.) barrandei* de Tromelin et Lebesconte 1876 emend. Oehlert 1889 so referred and nomenclatorial history given with synonym *Dalmanites cailliaudi* Verneuil nom. nud. p. 5 text-pl. fig. 1, *A. (M.) oehlerti oehlerti* sp. et subsp. n. for *Cryphaeus* cf. *barrandei* of Oehlert 1889 partim (pl. 18 figs. 7a-b) [including i.a. records of *barrandei* by Renaud 1942 and of *A. laciniatus* by Rodriguez-Mallado & Thadeu 1947 (non fig. 2)] p. 6 pl. i figs. 1, 1a-b, pl. ii figs. 1, 1a-b, text-pl. figs. 3, 3a, text-fig. 1a, *A. (M.) oehlerti* pl. ii fig. 3, *A. (M.) oehlerti praecursor* subsp. n. [including records of *C. calliteles* by de Verneuil 1850 and ? Kayser 1878, and of *barrandei* by Oehlert 1889 partim (pl. 18 fig. 7), Péneau 1928 partim, Pillet 1948 partim (pl. 17 fig. 6b)] p. 11 pl. i figs. 2, 2a-b, pl. ii fig. 2, text-fig. 1b Devonian (Lower) France (Armorican massif), *A. (M.) andegavensis* Pillet p. 11 text-pl. fig. 2; following spp. also referred to *A. (Metacanthina)* p. 14—*asiatica* de Verneuil, *boopis* Richter, *czarnockii* Kielan, *drevermanni* R., *wallacei* G. & H. Termier; *A. ebbae* R. & E. R., *A. prorotundifrons* R. & E. R. and possibly *A. mesocristata* Le Maître referred to *Pseudocryphaeus* p. 15, Pillet Bull. Soc. géol. Fr. (6) 8 I 1958.

*Asteropyge (A.) prorotundifrons* R. & E. Richter type of *Treveropyge* gen. n. p. 228, to which is also referred *A. ebbae* R. & E. R., Struve (3).

*Asteropyge punctata* (Steininger) pl. iii fig. 24, Struve (1).

*Asteropyge* sp. [intermedia (Kegel)?] p. 125, *A. (Rhenops)* cf. *anserina* (R. & E. Richter), *A. (subg. ?) atava* (Schmidt) p. 134, *A. sp.* p. 117, Rösler (1).

*Asteropyge* sp. p. 20 pl. ii figs. 10a-b, Chernysheva (1).

*Asteropyge* sp. p. 135, Röder.

*Asteropyge* sp. p. 40ff., Rösler (2).

*Asteropyginae* see *Treveropyge* gen. n. and *Comura* (*Delocare*) subgen. n.

*Ataktaaspis* Lochman 1944 probably a synonym of *Eochuangia* Kobayashi 1934 p. 21, Öpik (1).

*Athabaskia* sp. p. 531, Shaw (2).

*Athabaskiella* see *Bathyuriscus*.

*Atractopyge pauli* sp. n. Ordovician (Middle) including *Cybele kutorgae* of Schmidt 1907 partim (pl. I figs. 17-18) p. 188 pl. vi figs. 3-4, *A. errans* Öpik 1937 p. 189 pl. vi fig. 2 text-fig. 7, *A. vardiana* sp. n. Ordovician (Upper) Estonia including *C. brevicauda* ? of S. 1881 partim (pl. II fig. 23, pl. 14 figs. 8-9, pl. 15 figs. 15-16) p. 190 pl. vi fig. 1, Männil Geol. Inst. Uurimused 3 1958.

*Aulacopleura* — *Aulacopleurina* Přibyl considered not closely related p. 160, Schmidt (2).

*Aulacopleura (Paraaulacopleura) inexpectata* (Barr.) p. 366, Chlupáč (?).

*Aulacopleura konincki* (Barr.) pl. xiv, Svoboda & Prantl.

*Aulacopleura konincki* (Barr.) p. 337, Tomeczykowa.

*Aulacopleura (A.) nitida* (Barrande 1846) p. 236 pl. iii figs. 1-3, *A. (A.) konincki* cf. *haueri* (Frech) emend. Gärtner p. 238 pl. iii fig. 4, *A. (A.) konincki* k. (B.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Aulacopleurina* Přibyl 1949 discussed and considered not closely related to *Aulacopleura* p. 160, *A. peltata* (Novák 1890) cephalon and thorax described p. 157 pl. i figs. 1a-b, 2-3, 4a-b, 5, Schmidt (2).

*Aulacopleurinae* — considered uncertain whether *Aulacopleurina* should be referred p. 160, Schmidt (2).

*Austinvillia billingsi* p. 531, Shaw (2).

*Autoloxolichas reedi* Phleger [holotype refigured pl. lxxxv figs. 1-2] a synonym of *Uralichas avus* (Barrande) p. 574, Tripp.

*Bailiaspis meridiana* sp. n. for *Conocoryphe* cf. *levyi* of R. & E. Richter 1929 p. 247 pl. i fig. 9 Cambrian (Middle) Spain (Zaragoza), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Bailiella* Matthew 1884 discussed, *B. aff. aequalis* (Linnarsson 1883) for *Conocephalites sulzeri* of Barrande 1852 partim (pl. 14 figs. 12-13 refiugured) p. 166 pl. xxxv figs. 1-5, Šnajdr (2).

*Bailiella barriense* n. sp. (Sdzuyl MS) p. 732 ff., Lotze (3).

*Bailiella barriensis* sp. n. p. 247 pl. i fig. 11 Cambrian (Middle) Spain (León), Sdzuyl Senckenbergiana leth. 39 3-4 1958.

*Bailiella* sp. p. 537, Shaw (2).

*Bailiella* spp. p. 100, Kobayashi (1).

*Baltagnostus beltensis* Lochman p. 11, Klepper et al.

*Basilicus khamrensis* [khamreksis on pl. expl.] sp. n. p. 123 pl. xxi fig. 11 Ordovician (Middle) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Basilicus marstoni* (Salter) p. 219, Dean.

*Basilicus nobilis* Barr. p. 383, Dyufur.

*Basilicus* sp. p. 113, Chugaeva.

*Basiella pyriformis* Kobayashi p. 200 pl. vii fig. 2, *B. yunnanensis* (Reed) p. 200, Sheng.

*Basiella* cf. *zivolkai* Web. p. 47, Nekhoroshev.

*Basocephalus* Ivshin gen. nov. [Dorypygidae], *B. nominalis* I. sp. nov. (type), *B. weberi* I. sp. nov. p. 43, *B. ?* sp. p. 56, Borukaev & Ivshin.

*Bathycheilus perplexus* (Barrande 1872) from Portugal p. 16 pl. vii figs. 1-3, pl. viii figs. 1-2, Thadeu.

*Bathynotellus yermolaevi* Lermontova partim (1940 pl. 40 fig. 3b refiugured) referred to *Bathynotus anabarensis* sp. n. p. 18 pl. i fig. 12, Lazarenko.

*Bathynotus anabarensis* sp. n. Cambrian (Middle) U.S.S.R. (N. Siberia) including *Bathynotellus yermolaevi* Lermontova 1940 partim (pl. 40

fig. 3b refiugured) from Novaya Zemlya p. 16 pl. i figs. 6-12, *B. granulatus* L. (pl. 40 fig. 2a) pl. i fig. 2 and *B. namanensis* L. (pl. 40 figs. 1, 1a, 1b) pl. i figs. 3-5 refiugured, Lazarenko Sborn. stat. paleont. biostrat., Leningrad 8 1958.

*Bathynotus holopygus* p. 531, Shaw (2).

*Bathyurellus nitidus* Billings, *B. formosus* B. p. 334, *B. sp.* p. 326, Kindle & Whittington.

*Bathyurellus* sp. p. 118 pl. viii fig. 1, Maksimova (2).

*Bathyurellus* ? sp. p. 72, Hallam.

Bathyuridae see *Biolgina* gen. n.

Bathyurids p. 73, Hallam.

*Bathyuriscellus quadratus* Tchern. MS p. 85, Chernysheva (4).

? *Bathyuriscidella* sp. p. 334, Kindle & Whittington.

Bathyuriscids — *Longianda* Hupé and *Pseudosaukianda* H. so considered p. 35, Špik (1).

*Bathyuriscops granulatus* Web. p. 17 pl. i figs. 1-3, Chugaeva.

*Bathyuriscus* (*Athabaskiella*) Kobayashi 1942 description p. 471, Kobayashi (3).

*Bathyurus caudatus* of Ulrich 1909 referred to *Goniotelina* sp. p. 851, Sando.

*Bathyurus* sp. p. 83, Kay.

*Bathyurus* sp. p. 23, Leech.

*Battus nudus* Beyr. taken as type of *Phalacroma* p. 45, Pokrovskaya.

*Bayfieldia ulrichi* p. 329, cf. *B. sp.* p. 323, Kindle & Whittington.

*Bellaspidella sureana* sp. n. p. 89 pl. fig. 5 [2 views] Cambrian (Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

? *Bellaspidella* sp. p. 329, Kindle & Whittington.

? *Bellaspis* sp. p. 332, Kindle & Whittington.

*Bellefontia collieana* ? p. 848, *B. sp.* p. 845 ff., Sando.

*Bellefontia nonius* Walcott p. 12, Leech.

? *Bellefontia* sp. p. 324, Kindle & Whittington.

aff. *Benthamaspis* p. 324, aff. *B.* sp. p. 325, Kindle & Whittington.

*Bergeroniellus asiaticus* L., *B. expansus* (L.), *B.* sp. p. 668, Suvorova & Petropavlovsky.

*Bergeroniellus certus* Egorova sp. nov. p. 32, Nekhoroshev.

*Bergeroniellus sinensis* (Chang), *B.* sp. p. 333, HSIANG in Egorova & Hsiang.

*Berkeia* Resser 1937 [type *Agraulos convexus* var. B Berkey = *B. typica* R.] a junior synonym of *Camaraspis* Ulrich & Resser 1924 [type *Arionellus* (*Agraulos*) *convexus* Whitfield 1878], *Sulcocephalus* Wilson 1948 taken to replace *Berkeia* p. 247, Lochman.

*Berkeia shantungensis* (Kobayashi) for *Iddingsia* ? s. K. 1935 p. 214, Kobayashi (5).

*Berkeia* sp. p. 227, Drewes.

*Bienella* sp. p. 322, Kindle & Whittington.

*Bienvillia* sp. p. 323, Kindle & Whittington.

*Billingsaspis adamsii* p. 528, *B. walcotti* p. 531, Shaw (2).

*Binodaspis laboriosis* Egorova sp. nov. p. 32, Nekhoroshev.

*Binodaspis rarus* Tchern. MS p. 85, Chernysheva (4).

*Binodaspis* sp. p. 668, Suvorova & Petropavlovsky.

*Biolgina* gen. n. [Bathyuridae] p. 119 for type *B. sibirica* sp. n. p. 119 pl. viii figs. 4a, 6, b (drawings), 5-7, *B. brevis* sp. n. p. 120 pl. viii fig. 2 Ordovician (Lower) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Birmanites* Sheng 1934 a synonym of *Ogygites* p. 39, Chugaeva.

*Birmanites* cf. *birmanicus* (Reed) p. 381, Dyufur.

*Blackwelderia alastor* (Walcott), *B. ciliata* (W.), ? *B. sinensis* (Bergeron) p. 101, Kobayashi (1).

*Blackwelderia* (*Lochmannia*) [nom. nud.] cf. *alastor* (Walcott) p. 589, GRABAU 19 [omitted Z.R. 84 11].

*Blackwelderella* [nom. nud.] *ciliata* (Walo.), *B. tieni* (Sun), *B. hemi-circularis*, *B. mienshanensis*, *B. tetraspina*, *B. uniforme* S. [nom. nuda] p. 709, GRABAU 19 [omitted Z.R. 84 11].

*Blainia gregaria* Walcott, *B.* cf. *g.* p. 676, Maxey.

*Blountia* (*Homodictya*) recorded p. 539, *B.* (*H.*) *imitatrix* (= *Acrohybus argutus*) p. 543, Shaw (2).

*Blountia complexa* sp. n. p. 105 pl. fig. 11, *B. multicostata* sp. n. p. 105 pl. fig. 12 Cambrian (Middle/Upper) Argentina (Mendoza), *B. soccorrensis* and *B. luanensis* Rusc. p. 106, Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Blountia* sp. cf. *B. plana* Resser p. 12, Leech.

*Blountia* sp. p. 322, Kindle & Whittington.

*Blountia* sp. p. 33, Wheeler.

*Blountiella* ? recorded p. 539, Shaw (2).

*Blountiella* sp. cf. *B. albertella* Resser p. 12, Leech.

*Boedaspis* gen. n. [Apianurinae] p. 38 for type *B. ensifer* sp. n. p. 39 pl. i figs. 1-4, pl. ii figs. 1-4, ? 5-7, ? pl. iii figs. 5-6 [referred pygidia, the last being *Acidaspis* sp. Bohlin 1949 fig. 8], ? *B.* sp. p. 41 pl. ii fig. 8 Ordovician (Lower) Sweden (Öland); *A. solis* Öpik 1926 may belong to *B.* p. 41, Whittington & Bohlin Publ. palaeont. Instn Univ. Uppsala No. 22 1958.

*Bojoscutellum* gen. n. [Scutelluidae] p. 179 (183) for type *Bronteus palifer* Beyrich Devonian (Lower) Czechoslovakia, *B. paliferum* p. pl. i figs. 2, 4, pl. ii figs. 18-19, *B. conspersum* Prantl, *B. crassicostatum* nov. sp. [nom. nud.] p. 180, Šnajdr Věsta. Úst. úst. geol. 33 3 1958.

*Bolaspidella* recorded p. 539, *B. macgerriglei* (Raymond) pp. 541, 543, Shaw (2).

*Bolaspis* sp. p. 333, Kindle & Whittington.

*Bolbocephalus* cf. *seelyi* (Whitfield) p. 72, Hallam.

*Bolbocephalus* sp. p. 325, Kindle & Whittington.

*Bonnia arctica* sp. n. p. 23 pl. i figs. 4-8 Cambrian (Lower) Greenland (N.W.), C. Poulsen Medd. Grönland 162 2 1958.

*Bonnia bubaris*, *B. capito*, *B. senecta* (?) p. 531, Shaw (2).

*Bonnia* p. 8, Leech.

*Bonniella desiderata* p. 528, Shaw (2).

*Borukaspis* [? gen. nov.] (several spp.) p. 100, Ivshin [omitted Z.R. 94 11].

*Botomella* gen. n. [Dinesidae] p. 917 for type *B. ekaterinae* sp. n. Cambrian (Lower) U.S.S.R. (Yakutsk) p. 918 figs. 1a, 5, 6, 4a, 6, 6, 2, Suvorova C. R. Acad. Sci. U.R.S.S. (ns) 122 5 1958.

*Brachymetopus* M'Coy 1847 — opinion of R. & E. Richter upheld that M'Coy indicated *B. strzeleckii* M. as type, suggested reference of case to ICZN for decision, Schmidt (1).

*Brachymetopus uralicus* (de Verneuil) p. 898, Wolfenden.

*Brachymetopus* sp. p. 244, Goldring.

*Brassicicephalus* recorded p. 539, Shaw (2).

*Briscoia coloradoensis* vertical range, Shaw (1).

*Briscoia sinclarensis* Walcott, *B. sp.* aff. *B. coloradoensis* (W.) p. 12, Leech.

*Broeggerolithus* Bancroft MS in Lamont 1935 discussed p. 88 and may be a junior synonym of *Onnia* p. 89, *B. broeggeri* (B.) lectotype chosen (p. 88) and refigured p. 89 pl. xii figs. 7-13, *B. soudleyensis* (B.) p. 91 pl. xii fig. 14, *B. sp.* p. 91 pl. xii

fig. 15; *Salterolithus harnagensis* B., *S. aff. h.* B. 1949 and *S. cf. h.* Whittington 1955 all tentatively referred to *B.* p. 83; *Ulricholithus* B. 1949 is near to or a synonym of *B.* p. 84, Whittard.

*Broeggerolithus broeggeri* (Bancroft) pl. xxvi fig. 7, *B. constrictus* B., *B. soudleyensis* (B.) pl. xxvi fig. 8, *B. sp.* p. 220, *B. globiceps* (B.) p. 221 pl. xxvi fig. 9, *B. longiceps* (B.) pl. xxvi fig. 10, *B. aff. s.* p. 222, *B. transiens* (B.) pl. xxvi fig. 11, *B. cf. t.* p. 223, Dean.

*Brongniartella bisulcata* (Salter) p. 222ff., *B. aff. bisulcata* p. 218, *B. b. var.* p. 221, *B. sp.* p. 219ff., Dean.

*Brongniartella brongniarti* Salter, of. *B. b.*, *B. of. b.* p. 25ff., *B. of. bisulcata* S. p. 29, Leckwijck et al.

Bronteidae discussed p. 51, Chugaeva.

Bronteidae see *Octobronteus* gen. n.

*Bronteopsis ? extraordinaris* sp. n. see Gen. indet. I.

*Bronteopsis ?* sp. p. 84, Kay.

*Bronteus* Goldfuss 1843 discussed p. 31, *B. (B.) costatus* Pusch 1833 p. 32 pl. i figs. 5-9, *B. (B.) silimensis* sp. n. including *B. c.* of Weber 1945 p. 36 pl. i figs. 12-13, *B. (B.) nanus* sp. n. p. 38 pl. i fig. 14, *B. (B.) orientalis* sp. n. p. 38 pl. ii figs. 6-8, *B. (B.) longicaudatus* sp. n. p. 40 pl. ii figs. 1-3 text-fig. 5 Devonian (Upper), *B. (B.) librovitchi* sp. n. p. 42 pl. ii figs. 4-5 Devonian (Middle) U.S.S.R. (Urals), *B. (B.)* [cf. on pl.] *flabellifer* Goldfuss 1843 p. 43 pl. i figs. 2-3, *B. (B.) aff. elegans* Peetz 1901 p. 45 pl. ii fig. 9, *B. (B.) aff. costatus* Pusch p. 46 pl. i fig. 4, *B. (B.)* sp. p. 47 pl. i fig. 10, *B. (B.)* sp. p. 48 pl. i fig. 11, *Maksimova* Trud. VSEGEI (ns) 3 1955.

*Bronteus* (*Bronteus*) Goldfuss discussed p. 32, *B. costatus* (Pusch) p. 33 pl. iv figs. 8-9, pl. v figs. 1-6, *B. costatus* var. *bestrensis* var. n. Devonian (Upper) [on pl. expl.] p. 33 (41) pl. iv figs. 10-11, pl. v figs. 7, 10, *B. costatus* var. *orensis* var. n. Devonian (Upper) p. 34 (41) pl. v fig. 9, *B. costatus* var. *convexa* var. n.

Devonian (Middle) p. 34 (41) pl. iv fig. 12, pl. v fig. 12, *B. lichaoides* Weber p. 34 (42) pl. iv figs. 19–20, *B. sp.* (*B. lichaoides* ?) p. 34 pl. v figs. 8, 13 [where attributed without reservation to *B. l.*], *B. angusticeps* Barr. var. *uralica* var. *n.* [age not stated] p. 35 (42) pl. iv figs. 13–15, *B. angusticeps* var. *inermis* B. p. 35 pl. iv fig. 16, *B. nalivkini* W. p. 35 pl. iv fig. 17, *B. cf. partschi* B. p. 36 pl. iv fig. 18, *B. cf.* [no cf. on pl. expl.] *schöbli* Novák p. 36 pl. v fig. 11, *Bronteus (Thysanopeltis)* Corda considered a useful practical grouping, *B. [(T.)] aculeatus* sp. n. Silurian (Upper) [Devonian (Lower) on p. 40] p. 27 (39) pl. iii figs. 1–2, pl. iv figs. 1, 2a–c, 3–7 text-figs. 2 (1), 4, *B. [(T.)] aculeatus* var. *lata* var. *n.* [same beds] p. 29 (40) pl. iii fig. 3, *B. [(T.)] aculeatus* var. *scalprata* var. *n.* Devonian (Middle) p. 29 (40) pl. iii fig. 4, *B. [(T.)] sidereus* nom. *n.* for *B. radiatus* Weber 1932 (non Münster) holotype refigured p. 30 (40) pl. iii fig. 13, text-fig. 2 (3), *B. [(T.)] arcticus* sp. n. Silurian (Upper) p. 30 (40) pl. iii fig. 8, text-fig. 2 (2), *B. [(T.)] totensis* sp. n. Devonian (Middle) p. 30 (40) pl. iii fig. 15, *B. [(T.)] tarak* W. p. 31 pl. iii figs. 5–7, text-figs. 2 (4–5), *B. [(T.)] yakovlevi* W. p. 31 pl. iii fig. 10 text-fig. 2 (8), *B. [(T.)] cristatus* sp. n. Silurian p. 31 (41) pl. iii figs. 11–12, text-fig. 2 (9), *B. cristatus* var. ? pl. iii fig. 9, *B. [(T.)] eugeni* N. Tschern. [Chernysheva] MS [sp. n.] Devonian (Middle) p. 32 pl. iii fig. 16 text-fig. 2 (11), *B. eugeni* ? pl. iii fig. 17, *B. [(T.)] alferovi* sp. n. [from Novaya Zemlya, age not stated] p. 32 (41) pl. iii fig. 14 U.S.S.R.; *B. franconicus* Gumbel probably referable to *Octobronteus* gen. n. p. 42, Weber Mater. VSEGEI [Pal. & Strat.] 4 1945.

*Bronteus angustifrons* Barr. var. p. 8 pl. i figs. 14–15, *B. crebristriatus* Lindstr. var. *magna* var. *n.* Silurian (Upper) p. 9 pl. i fig. 12, pl. ii figs. 1, 2, 5, *B. partschi* Barr. p. 9 pl. ii figs. 4, 6, 13, 15, *B. pustulatiformis* N. Tschern. p. 10 pl. i fig. 16, *B. andersoni* Eth. et Nich. p. 10 pl. i fig. 17, *B. lichaoides* Web. p. 10, *B. sp.* (*B. lichaoides* ?) p. 11, *B. (Eobronteus) markovskiyi* sp. n. [hori-

zon not explicitly stated] p. 11 pl. ii figs. 3, 12, *B. (Thysanopeltis) aculeatus* Web. p. 11 pl. ii figs. 9–10, 14, pl. iii fig. 17, *B. (T.) a.* var. *lata* W., *B. (T.) arcticus* W., *B. (T.) tarak* W., *B. (T.) cristatus* W. p. 13 pl. ii fig. 16 U.S.S.R., *B. (T.) radiatus* sp. nov. [W. 1932] p. 51, Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Bronteus karamolensis* Kor. [Koroleva] MS p. 879, Bykova.

*Bronteus nuntius* Barrande and *B. partschi* B. referred to *Kosovo-peltis* gen. n. p. 178; *B. haidingeri* B. type of *Decoroscutellum* gen. n. to which are also referred *B. binotatus* B., *B. lepidum* Bouček, *B. pustulatiformis* Chernysheva, *B. uralicus* Weber p. 178; *B. palifer* Beyrich type of *Bojoscutellum* gen. n. p. 179; *B. formosus* Barr. type of *Platyscutellum* gen. n. to which are also referred *B. kutorgai*, *B. magus* [sic], *B. spinifer*, *B. viator* B. spp. p. 180; *B. porosus* B. type of *Poroscutellum* gen. n. to which are also referred *B. acupunctatus*, *B. expectans*, *B. indocilis*, *B. infastus* B. spp. p. 181, Šnajdr (3).

*Bronteus romanovskyi* [sic] Web. p. 53 pl. vi figs. 15–18, pl. vii figs. 1–2, *B. aff. partschi* Barr. p. 118, Chugaeva.

*Bulbaspis* gen. nov. [Chugaeva 1956] diagnosis p. 25, *B. ovulum* (Web.) for *Raphiophorus* ? o. W. holotype [lectotype] designated including *R. aff. volborthi* of W. 1948 p. 26 pl. ii figs. 6–10 text-fig. 5a, *B. mirabilis* sp. n. [nondescr. 1956] Ordovician (Upper) p. 28 pl. iii figs. 1–4 text-fig. 5b, *B. sphaerornatus* sp. n. [nondescr. 1956] Ordovician (Middle) p. 29 pl. ii figs. 11–16 text-fig. 56 U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.R. 9 1958.

*Bumastides* Weber 1948 diagnosis p. 63, *B. bedpakensis* W. neotype (complete specimen) chosen and illustrated p. 64 pl. viii figs. 7–10 text-fig. 13 (3 views), Chugaeva.

*Bumastus barriensis* Murchison p. 4 pl. i figs. 5a–6, *B. barriensis* var. *ferganensis* Web. p. 5 pl. i figs. 3, 6, 7 a–6, 18a–6, *B. uralicus* sp. n. p. 6 pl. i figs. 4, 9, *B. uralicus* var. *striata* var.

n. p. 7 pl. i figs. 8, 11, 13, *B.* sp. (aff. *B. insignis* Hall) p. 7 pl. i fig. 10, *B.* ? sp. 2 and *B.* ? sp. 3 p. 8 Silurian U.S.S.R., Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Bumastus barriensis* Murchison 1839 p. 39 pl. xxiv figs. 1a-3 [8 figs.], Balashova (3).

*Bumastus barriensis* Murch. p. 17 pl. 3 pars (3 figs.), Nikiforova.

*Bumastus barriensis* Murch. p. 238, Paškevičius (2).

*Bumastus barriensis* Murch. pl. ii fig. 2, Siegfried.

*Bumastus bouchardi* (Barr.), *B. hornyi* Šnajdr, *B. tardus* (B.) stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Bumastus* sp. cf. *B. ioxus* (Hall) table V, *B. ioxus* tables VIII, X, XI, XII, *B.* cf. *armatus* (H.) table XI, Bolton.

*Bumastus milleri* Bill., *B. holei* Foerste p. 113 [both cf. on p. 118], Chugaeva.

*Bumastus* cf. *tenuirugosum* Troedsson p. 13, Burns.

*Bumastus tenuirugosus* Troedsson 1929 p. 123 pl. xlvii figs. 1a-6, 2, Maksimova (2).

*Bumastus* sp. p. 84, Kay.

*Bumastus* sp. p. 20, Leech.

*Bumastus* sp. p. 2339ff., Webb.

? *Bumastus* sp. p. 334 pl. xiv fig. 4, Šuf.

*Burnetia* Walcott 1924 (non Broom 1923) renamed *Burnetiella* nom. n. p. 247, Lochman.

*Burnetiella* gen. n. (nom. n. for *Burnetia* Walcott 1924 non Broom 1923) for type *Ptychoparia* ? *urania* W. 1890 p. 247, Lochman J. Paleont. 32 1 1958.

*Bynumia* recorded p. 539, *B. metisensis* Rasetti p. 541, *B. leptogaster* p. 543, Shaw (2).

*Bynumia* see *Bynumina*.

*Bynumia* cf. *venusta* Resser p. 12, Leech.

*Bynumiella*—reference to Kingstonidae questioned p. 329n, Lochman-Balk & Wilson.

*Bynumina* [sic] — reference to Kingstonidae questioned p. 329n, Lochman-Balk & Wilson.

*Callavia breviloba* Poulsen is possibly referable to *Paedeumias* p. 6n, C. Poulsen (1).

*Callavia chaffati* (Delgado) p. 362 pl. liv fig. 1, Teixeira (2).

*Callavia* p. 7, Leech.

*Calliops* cf. *armatus* Ulrich et Delo 1940 p. 130 pl. xxi figs. 3-6, Maksimova (2).

*Calliops* sp. pp. 83, 84, Kay.

*Calmoniinae* see *Paracalmonia* and *Tibagya* genn. n.

*Calvinella portlandensis* sp. n. p. 51 pl. ii fig. 13, pl. iii figs. 1, 5, *C. putula* sp. n. p. 52 pl. iii figs. 2-4 Cambrian (Upper) U.S.A. (Pennsylvania), Howell Bull. Wagner Inst. Sci. Philad. 30 4 1955.

*Calybole* see *Cyrtosymbole*.

*Calymene attenuata* Gigout & C. aff. *pulchra* of G. 1951 stated to occur in France (Hérault) p. 2740, Gigout.

*Calymene blumenbachi* Brongniart 1822 p. 40 pl. xxiv figs. 2, 3a-6, *C. prenica* sp. n. p. 40 pl. xxiv figs. 4a-6, 5-6 Silurian (Lower) Lithuania, Balashova Field Atlas of the characteristic complexes of the fauna of the Silurian deposits of the southern part of the Lithuanian SSR 1954.

*Calymene blumenbachi* Brongniart p. 8 pl. ii fig. 6, Chernysheva (1).

*Calymene blumenbachi* Brongniart 1822 p. 126 pl. lx fig. 3, Maksimova (2).

*Calymene blumenbachi* Brongn. *C. blumenbachi* var. *asiatica* Veb. *C.* cf. *tuberculata* Dalm. p. 119, Paškevičius (3).

*Calymene blumenbachi* Brongn. *C. b. bardensis* Tom. p. 337, Tomczykowa.

*Calymene blumenbachi* Brongn. var. nov. (Weber) [undescr.] p. 17 pl. 3 pars (4 figs.) Silurian (Lower) U.S.S.R. (Podolia), Nikiforova.

*Calymene* cf. *blumenbachi* Brongn. p. 24 pl. iv figs. 5a-6, 11-12, 17-18, *C. blumenbachi* var. *asiatica* var. n. including *C. cf. b.* of Nikiforova 1937 p. 25 pl. iv figs. 7-9, 14-16, 22, *C. blumenbachi* var. *producta* var. n. p. 26 pl. iv figs. 6, 13 Silurian U.S.S.R., Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Calymene clintoni* (Vanuxem) tables IV, V, *C. sp.* table VI, *C. cf. c.* table VII, *C. niagarensis* Hall tables VIII, XI, Bolton.

*Calymene collicephala* Green text-fig. 11 [4 photographs illustrating enrolment], Bachmayer.

*Calymene* cf. *duplicata* (Murchison 1839) from Portugal p. 14 pl. viii figs. 3-4, Thadeu.

*Calymene* cf. *grandis* Hol. MS p. 73, Horný (1).

*Calymene hopkinsoni* Hicks a synonym of *Placoparia zippei* (Boeck) p. 104, Whittard.

*Calymene khalfini* Tschernov (in litt.) p. 62, Nekhoroshev.

*Calymene meeki* p. 522, Gutstadt.

*Calymene preanica* [sic] Balasch. p. 237, *C. blumenbachi* Brongn. p. 238, Paškevičius (2).

*Calymene replicata* Shirley p. 139, *C. sp.* p. 139 pl. xxix fig. 1, Curtis.

*Calymene* (*Synhomalonatus*) [sic] *tungtzuensis* sp. n. p. 200 pl. vii figs. 5a-c, *C. (S.) convexia* sp. n. p. 201 pl. vii fig. 6 Ordovician (Middle) China (Szechuan and Kweishow), *C. (Calymenesun) tingi* Sun p. 201 pl. vii figs. 4a-c, *Sheng Acta palaeont. sinica* 6 2 1958.

*Calymene* sp. p. 21, cf. *C.* p. 23, Leckwijck et al.

*Calymenella* aff. *media* of Gigout 1951 stated to occur in France (Hérault) p. 2740, Gigout.

*Calymenesun* see *Calymene*.

Calymenid indet. p. 220, Dean.

cf. Calymenid pygidium p. 15, Leckwijck et al.

Calymenidae — discussion and acceptance of Shirley's 1936 generic classification p. 948, Stumm & Kauffman.

*Calymenopsis* Bergeron 1895 a synonym of *Euloma* (*E.*) p. 268, Sdzu (2).

*Calyptaulax* Cooper 1930 can be used in place of its unavailable synonym *Homalops* Remelé 1885 (non Motschulsky 1850) p. 302, Struve (4).

*Calyptaulax* sp. p. 224, Dean.

*Calyptaulax* sp. p. 50, Nekhoroshev.

*Camaraspis* Ulrich & Resser 1924—Berkeia Resser 1937 quod vide (based on same type) a synonym p. 247, Lochman.

*Camaraspis onyx* R. & E. Richter 1940 referred to *Alanisia* p. 239, Sdzu (1).

*Camaraspis onyx* R. & E. Richter a synonym of *Alanisia guillermo* (R. & E. R.) p. 266, Henningsmoen (1).

*Canotiana* [misspelled *Canoniana*] *villavicensis* Rusc. p. 106, Rusconi (3).

*Carinopyge* gen. n. [Pterygometopinae] p. 132 for type *C. fracta* sp. n. p. 132 pl. xxxi fig. 3, *C. abscisa* sp. n. p. 132 pl. xxx fig. 4, *C. ensifera* sp. n. p. 133 pl. xxx fig. 5 Ordovician (Middle) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Carnicia* see *Drevermannia*.

*Carolinites*—*Keidelia* may be related p. 144, Ross (2).

*Carolinites* sp. p. 332, Kindle & Whittington.

*Catillicephalia* recorded p. 539, *C. lata* (Raymond), *C. rotunda* (Rasetti), *C. sp.* indet. p. 541, *C. fowleri* p. 543, Shaw (2).

*Catillicephalia* sp. p. 322, Kindle & Whittington.

*Cayupania* gen. n. [?Anomocardiidae], *C. obliquoana* sp. n. p. 87 pl. figs. 3a, b-d [referred cranium] Cambrian (Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Cedaria cajonensis* sp. n. p. 91 [unillustr.] Cambrian (Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Cedaria* n. sp. [undescr.] p. 11, PALMER in Klepper et al.

*Centropleura* Angelin 1854 may not be closely related to *Paradoxides*, *C.* n. sp. [undescr.] from Queensland p. 204 text-fig. 1 (reconstr.), Öpik (2).

*Centropleura vermontensis* p. 537, Shaw (2).

*Centropleurinae* (Angelin) Howell discussed p. 150, *Luhops* Šnajdr referred, Šnajdr (2).

*Ceratarges* list of referred spp. p. 578, *C. armatus armatus* Goldfuss—*Lichas armata geesiana* Richter a synonym p. 579, RICHTER in Tripp.

*Ceratarges armatus* Goldfuss text-fig. 4, Bachmayer.

*Ceratarginae*—list of referred spp. p. 577; *Lichas radugini* Weber considered *Ceratarginae* incerti generis p. 578, Tripp.

*Ceratarginae*—*Perunaspis* Přibyl referred, Prantl & Vaněk (2).

*Ceratocephala* (*C.*) *verneuilli* (Barr.), *C.* (? *C.*) *rara* (B.), *C.* (? *C.*) *bohemica* Prantl & Přibyl stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Ceratolichas* list of referred spp. p. 576, Tripp.

*Ceratonurus krejčí* (Novák) p. 376, Horný (4).

*Ceratopyge* see Undetermined genus and species No. 3.

*Ceraurid* p. 326, Kindle & Whittington.

*Ceraurinella* Cooper 1953 discussed p. 173, *C.* ? cf. *latifrons* (Warburg 1925) for *Reraspis rosenthali* of Öpik 1937 (refigured) p. 174 pl. i figs. 5-6, *C.* ? aff. *ingrica* (Schmidt 1881) p. 175 pl. i fig. 7, *C.* ? *ornata* (Dalman) pl. iii fig. 10; *Ceraurus intermedius* Kielan apparently belongs to *Ceraurinella* p. 173, Männil (4).

*Ceraurinella* sp. cf. *C. pompilius* (Billings) p. 84, Kay.

*Ceraurinus icarus* (Billings) 1860 p. 126 pl. xxx fig. 2, *C. biformis* sp. n. p. 127 pl. xxi fig. 1 Ordovician (Middle) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Ceraurinus jakovlevi* sp. n. p. 87 pl. ix figs. 9-10 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Cerauroides hawlei* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Ceraurus*—filaments of outer rami of appendages are too large to be setae and were presumably respiratory p. 282n, Tiegs & Manton.

*Ceraurus aculeatus* Eichwald 1860 type of *Paraceraurus* gen. n. p. 169 to which is also referred *C. gladiator* E. p. 170, *C. intermedius* Kielan apparently belongs to *Ceraurinella* p. 173, Männil (4).

*Ceraurus kassini* sp. n. p. 85 pl. ix figs. 11-12 Ordovician (Middle) U.S.S.R. (Kazakhstan), *C.* sp. p. 113, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Ceraurus* sp. p. 23, Leech.

*Ceraurus* ? sp. p. 83, Kay.

*Chancia* p. 225, Drewes.

*Chancia rasettii* p. 531, Shaw (2).

*Changshania conica* Sun p. 466, Chien.

*Changshania conica* Sun from Manchuria p. 138, Lu.

*Changshaniidae* see *Parachangshania* gen. n.

*Charchaqia* sp. p. 133 (151) pl. i fig. 7, Lu.

*Chasmops* see *Phacops*.

*Chasmops odini* Eichwald 1840 p. 22 pl. xi figs. 2-4, *C. wesenbergensis* Schmidt 1857 [sic] p. 30 pl. xvi figs. 6-9, Balashova (3).

*Chasmops praecurrents* Schm. p. 20 text-fig. 4, Janusson (1).

*Chasmops wesenbergensis* Schm. p. 114, *C. eichwaldi* S. p. 115, Paškevičius (1).

*Chasmops* sp. p. 222ff., Dean.

*Chattiaspis* subgen. n. see *Dalmatina*.

*Chaunoproetus* R. et E. Richter 1919 discussed and referred to Proetinae with synonym *Skemmatopyge* R. & E. R. p. 51, *C. palensis* (R. R. 1913) p. 52 pl. ix fig. 1, *C. ? plenus* sp. n. [cephalon] p. 53 pl. ix figs. 12, 13a-6, *C. tietzei* (R. & E. R. 1919) for *S. t.* p. 55 pl. ix figs. 2-3, *C. kasakhstanicus* sp. n. p. 56 pl. ix fig. 4 Devonian (Upper) U.S.S.R. (Kazakhstan), Maksimova Trud. VSEGEI (ns) 3 1955.

*Chaunoproetus palensis* (R. Richter) — complete specimen found demonstrating synonymy with *Drevermannia* ? (Carnicia) *carnica* (R. R.) p. 29, Rabien (1).

*Cheilocephalus* vertical range, Shaw (1).

Cheirurid cf. "Cheirurus" *prolificus* Billings p. 326, Cheirurid of *Parapilekia* type p. 324, Kindle & Whittington.

Cheirurinae see *Paraceraurus* gen. n.

*Cheirurus beyrichi* Barr. including *C. ex gr. insignis* of Weber 1932 (pl. 2 fig. 17) p. 34 pl. v figs. 14, 17, pl. vi figs. 1, 7, *C. strabo* Web. [refigured] p. 35 pl. vi figs. 14a-6, *C. gammatus* sp. n. for *C. quenstedti* of W. 1932 [refigured] p. 35 pl. vi figs. 8a-6, *C. maackii* Schm. [refigured] p. 36 pl. v fig. 21, *C. ? longiaxiatus* sp. n. p. 36 pl. vi fig. 3, *C. ? uratubensis* Web. [refigured]

p. 36 pl. vi fig. 2, *C. sp. 1* (*C. quenstedti* ?) p. 37 pl. vi fig. 19, *C. sp. 2* for *C. aff. welleri* of Chernysheva 1951 p. 37 Silurian U.S.S.R., Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Cheirurus estonicus* sp. n. Silurian (Lower) Estonia p. 166 pl. i figs. 2-4 text-fig. 1 (reconstr.); *C. exul* Beyrich, *macrophthalmus* Kutorga, *spinulosus* Nieszkowski, *wahli* Öpik all referred to *Paraceraurus* gen. n. p. 170, *C. (Cyrtometopus) rosenthali* Schmidt tentatively to *Hemisphaerocoryphe* p. 179, *C. (Sphaerocoryphe)* cf. *granulatus* of S. 1881 to *S. erratica* sp. n. p. 181, *C. (Nieszkowskia) variolaris* of S. 1881 *partim* to *N. osmussaarensis* sp. n. p. 182, Männil Geol. Inst. Uurimused 3 1958.

*Cheirurus exsul* Beyrich 1846 p. 17 pl. vii figs. 6-8, Balashova (3).

*Cheirurus (Crotallocephalus) gibbus* Beyr. p. 376, *C. (Crot.) gibbus* nov. mut. [undescr.] p. 375, Horny (4).

*Cheirurus (C.) insignis* Beyrich 1845 neotype selected p. 244 pl. vii fig. 2, *C. (C.) obtusatus* (Hawle et Corda 1847) lectotype selected including *C. i.* of Barrande 1852 *partim* (pl. 41 fig. 5) p. 245 pl. vii fig. 1, *C. (C.) bicuspidatus* Bouček 1933 including *C. i.* of B. 1852 *partim* (pl. 41 figs. 1-4, 6-7, 12) p. 246 pl. viii fig. 1, *C. (C.) bifurcatus* B., *C. (C.) quenstedti* (B.), *C. (C.) cf. q.*, *C. (Pseudocheirurus) beyrichi* B. stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Cheirurus insignis* Beyrich pl. xiii pars, Svoboda & Prantl.

*Cheirurus kasachstanicus* sp. n. [called *C. frontilobus* in places] p. 83 pl. ix fig. 8 Ordovician (Middle) U.S.S.R. (Kazakhstan), *C. aff. clasoni* Törnq. p. 113, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Cheirurus mercurius* Billings p. 334, Kindle & Whittington.

*Cheirurus minutus* Barrande 1846 with synonym *Lichas nitidulus* B. 1872 referred to *Perunaspis* p. 29, Prantl & Vaněk (2).

*Cheirurus niagarensis* (Hall), *C. cf. welleri* Raymond table XI, Bolton.

"*Cheirurus*" *prolificus* see Cheirurid.

*Cheirurus (Crotalocephalus) sternbergi* (Boeck 1827) p. 130 pl. x fig. 1, *C. (Crot.) tardus* sp. n. Devonian (Middle) U.S.S.R. (Urals) p. 131 pl. x fig. 2, *Maksimova* Trud. VSEGEI (ns) 3 1955.

*Cheirurus* sp. p. 111 pl. xv fig. 5; *C. sedgwicki* record of Lake 1907 may be near to *Eccoptochile clavigera* p. 115, Whittard.

*Chilometopus* Rusconi 1952 referred to Dolichometopidae, *C. parabolicus* R. revised description p. 8 pl. i fig. 4, V. Poulsen.

*Chinghizella* gen. nov. [apparently close to *Volonellus*], *G. elegantula* sp. nov. (nom. nud.) p. 57, Borukaev & Ivshin.

*Chondragraulos granulatus* Tchern., *C. (Antagmopleura) flerovae* Lerm. [neither seen] p. 87, Chernysheva (4).

*Chuangia batia* Walcott p. 335, WANG in Egorova & Hsiang.

*Chuangia batia* (Walcott) p. 466, Chien.

*Chuangia taihakuensis* Kobayashi p. 212, Kobayashi (5).

*Chuangiella elongata* Kobayashi p. 335, Ho in Egorova & Hsiang.

*Ciceragnostus* cf. *cicer* (Tullberg) p. 57, Borukaev & Ivshin.

*Ciceragnostus westergårdi* n. sp. (Sdzuy MS) p. 731, Lotze (3).

*Ciceragnostus westergårdi* sp. n. p. 236 pl. i fig. 8 Cambrian (Middle) Spain (Zaragoza), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Ciceragnostus* ? sp. p. 37, Nekhoroshev.

*Clavaspidella digesta* Leanza 1947 designated as type of *Mendospidella* Rusconi [quod vide] p. 6, *C. asperoensis* R. 1952 excluded from *C.* as incerti ordinis p. 16, V. Poulsen.

*Clavaspidella* ? sp. undet. p. 675, Maxey.

*Cobbodia* from China p. 333, Egorova & Hsiang.

*Cobbodia altaica* Pol. p. 32, Nekhoroshev.

*Collyrolenus* Hupé 1952 [sic] considered a subgenus of *Hamatolenus* p. 237, Sdzuy (1).

*Colpocoryphe* see *Synhomalonotus*.

*Colpocoryphe aragoi* Rouault p. 21, *C. cf. a.* p. 15, Leckwijk et al.

*Colpocoryphe aragoi* (Rouault 1849) p. 15 pl. vi fig. 1, Thadeu.

*Comura (Delocare)* subgen. n. p. 231 for type *Cryphaeus boopis* R. Richter Devonian (Lower) Germany (Eifel) text-figs. 2a-d, Struve Senckenbergiana leth. 39 3-4 1958.

"*Conaspis*" *rectalabra* [Wilson] so referred p. 339, Lochman-Balk & Wilson.

*Condylopyge* Hawle & Corda 1847 discussed p. 50, *C. rex* (Barrande 1846) lectotype chosen and figured p. 51 pl. i figs. 23-31, pl. ii figs. 1-4, 6, text-fig. 6 (reconstr.), Šnajdr (2).

*Condylopyge rex* Barrande p. 731 ff., Lotze (3).

*Conocephalites* see *Conocoryphe*.

*Conocephalites geinitzi* Barrande 1868 type of *Euloma* (*Proteuloma*) subgen. n. p. 269, Sdzuy (2).

*Conocephalus* see *Conocoryphe*.

*Conocephalus emmrichi* Barrande 1846 referred to *Conocephalina* [quod vide] p. 192, Šnajdr (2).

*Conocoryphe* Hawle & Corda 1847 discussed p. 155, *C. sulzeri* (Schlotheim 1823) neotype chosen and figured [with synonyms var. *kinskyanus* Sternberg 1825, *Conocephalus costatus* Zenker 1833, *C. mutica* partim (sp. restr. a synonym of *Ptychoparia striata*), *C. latifrons*, ? *C. punctata* H. & C., but excluding records of *sulzeri* by i. a. Barrande 1852 partim (pl. 14 figs. 12-13 to *Bailliella* aff. *aqualis*, fig. 14 to *C. granulata*)] p. 156 pl. xxxi figs. 8-13, pl. xxxii

figs. 1-13, pl. xxxiii figs. 1-11, pl. xxxiv figs. 1-5, 7-9, pl. xlvi fig. 10 (teratology), text-figs. 32-33 (reconstrs.), *C. granulata* H. & C. 1847 lectotype [recte neotype] chosen and figured p. 163 pl. xxxiv figs. 6, 10-14, text-fig. 34 (reconstr.), *C. levyi* Mun.-Chalm. et Berg. from France pl. xxxii fig. 14, Šnajdr (2).

*Conocoryphe heberti* Munier-Chalmas & Bergeron p. 731ff., *C. aff. h.* p. 737, *C. pseudooculata* (Miquel) p. 738, Lotze (3).

*Conocoryphe (C.) ovata* sp. n. p. 246 pl. i fig. 10 Cambrian (Middle) Spain (León); *C. cf. levyi* of R. & E. Richter 1929 referred to *Bailiaspis meridiana* sp. n. p. 247, Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Conocoryphe sulzeri* Schlotheim text-fig. 6, Bachmayer.

*Conocephalina* Brögger 1886 discussed and referred to *Ptychopariidae* with synonyms *Lobocephalina* and *Lobocephalus* Růžička 1939 and *Růžičkaria* Přibyl 1950 p. 190, *C. emmrichi* (Barrande 1846) for *Conocephalus* e. B. lectotype chosen and figured [with synonyms *Ptychoparia marginata* Pompeckj 1895, *Lobocephalus latifrons*, *L. cylindricus*, *Lobocephalina carinata* R. 1939] p. 192 pl. xl figs. 8-16, 18, pl. xli figs. 1-9, Šnajdr (2).

*Conolichas* list of referred spp. p. 576, Tripp.

*Coosella* sp. p. 322, Kindle & Whittington.

*Coosella* sp. p. 33, Wheeler.

*Coosia dakotensis* vertical range, Shaw (1).

*Coosia* ? sp. [Shaw 1952] p. 543, Shaw (2).

*Cornuproetus* see *Proetus*.

*Cornuproetus* (*C.*) aff. *buchi* (Hawle & Corda) p. 27, Cavet & Pillat.

*Coronocephalus rex* p. 444, *C.* sp. p. 445, Hong.

*Corydocephalus* see *Lichas*.

*Corydocephalus törnquisti* Gürich p. 113, Chugaeva.

*Corynexochina asiatica* Ivshin sp. nov. p. 44, Borukaev & Ivshin.

*Corynexochoidea* see *Jakutidae*.

*Corynexochus commodus* Ivshin sp. nov., *C.* sp. p. 44ff., *C. akmolensis* sp. nov. p. 50, Borukaev & Ivshin.

*Corynexochus* sp. p. 333, Kindle & Whittington.

*Corynexochus* sp. p. 731, Lotze (3).

*Costonia ultima* (Bancroft) pl. xxvi figs. 1-2, *C.* sp. nov. [undescr.] p. 218, Dean.

*Cotalagnostus* Whitehouse stated to have been referred to *Hypagnostinae* Ivshin 1953 p. 81n, Pokrovskaya.

*Couloumania* Thoral 1946 discussed p. 171, *C. havlíčekii* Šnajdr 1957 holotype refigured p. 172 pl. xxxvi figs. 13-14, Šnajdr (2).

*Crassifimbra walcotti* (Resser) [type of *C.*] morphology (p. 157) and ontogeny (p. 165) described from silicified material from Nevada pl. xxv figs. 1 [holotype refigured, considered atypical], 2-4, 7-25, pl. xxvi figs. 1-24, text-figs. 3A-C, 4A-B (reconstrs.), 5A-B, 6 (graphs), 7 (ontogenetic reconstrs.) table 1, systematic position of *C. walcotti* and *C.* sp. undet. 2 Rasetti 1955 discussed p. 164, Palmer.

*Crepicephalina* ? sp. aff. *C. convexa* (Walcott) p. 465 pl. xviii fig. 3, Kobayashi (2).

*Crepicephalus* sp. p. 322, Kindle & Whittington.

*Crithias* Hawle & Corda 1847 a synonym of *Sao* p. 203, type *C. minima* H. & C. a synonym of *S. hirsuta* p. 205, Šnajdr (2).

*Cromus* see *Encrinurus*.

*Crotalocephalus* see *Cheirurus*.

*Crotalocephalus sternbergi* Boeck var. *bitumulata* var. n. p. 37 pl. vi fig. 5, *C. myops* (Roem.) p. 38 pl. vi figs. 12a–B, *C. myops* var. *scissa* var. n. for *C. m.* var. *interrupta* of Weber 1932 p. 38, *C. sp.* ind. p. 38 Silurian U.S.S.R., Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Cryphaeus boopis* R. Richter type of *Comura* (*Delocare*) subgen. n. p. 231, Struve (3).

*Cryphaeus boopis* R. Richter referred to *Asteropyge* (*Metacanthina*) [quod (& *Pseudocryphaeus*) vide for other records of *C.*] p. 14, Pillet.

*Cryphops* see *Phacops*.

*Cryptoderaspis* recorded p. 539, Shaw (2).

*Cryptolithus* Green 1832 discussed pp. [70], 71, *C. inopinatus* sp. n. p. 72 pl. x figs. 1–7, *C. intertextus* sp. n. p. 74 pl. x figs. 8–11, *C. radiatilis* sp. n. p. 76 pl. xi figs. 1–2, *C. cf. r.* p. 77 pl. xi fig. 3 Ordovician (Middle) Britain (Shropshire); *C. terryi* [Leith] tentatively referred to *Salterolithus* p. 89, Whittard Palaeontogr. Soc. [Monogr.] 111 1958.

*Cryptolithus* development of cephalic fringe described in abstract p. 1662, Whittington & Hunt.

*Cryptolithus* sp. cf. *C. fittsi* Ulrich & Whittington p. 2344, Webb.

*Cryptolithus ornatus* (Stbg) p. 73, Horný (1).

*Cryptolithus tessellatus* p. 522, Gutstadt.

*Cryptonymus* Eichwald 1825 suppressed and placed on Official Index, *C. wahlenbergii* E. 1825 placed on Official List of Specific Names, Opinion 508.

*Ctenocephalus* Hawle & Corda 1847 discussed p. 167, *C. (C.) coronatus* (Barrande 1846) lectotype chosen and figured with synonym *C. barrandii* H. & C. but excluding records of *coronatus* by de Verneuil & Barrande 1860 (tentatively) and by Hicks 1872 p. 168 pl. xxxv figs. 6–11, pl. xxxvi figs. 1–12 text-figs. 35 (reconstr.)–36, Šnajdr (2).

*Ctenocephalus antiquus* Thoral, ? *C. a.* p. 731, *C. cf. bergeroni* T. p. 732, Lotze (3).

*Ctenocephalus exulans* (Linrs.) listed fig. 2, Šuvorova & Petropavlovsky.

*Ctenocephalus spinatus* Lake 1940 probably a synonym of *C. coronatus* p. 454, Sdzuy (4).

*Ctenopyge* cf. *flagellifera* p. 323, *C. sp.* p. 329, ? *C. spine* p. 332, Kindle & Whittington.

*Cummingella* Reed 1942 compared with *Moschoglossis* gen. n. p. 234, *C. ? costabisulca* sp. n. p. 240 pl. xlvi figs. 14–16, *C. ? sp.* p. 241 pl. xlvi fig. 13 Carboniferous (Lower) Britain (S.W. England), Goldring Palaeontology 13 1958.

*Cuyanaspis empozadensis* (Ruso.) p. 90, Rusconi (2).

*Cybele kutorgae* of Schmidt 1907 partim referred to *Atractopyge pauli* sp. n. p. 188, *C. brevicauda* ? of S. 1881 partim to *A. vardiana* sp. n. [quae vide] p. 190, Männil (4).

*Cybele weberi* (Kol.) p. 879, Bykova.

*Cybele weberi* Kol. p. 113, *C. cf. w.* p. 118, *C. sp.* p. 114, Chugaeva.

*Cycognathina microps* Lerm. pl. xiv figs. 7, 13 pars b, *C. ex gr. m.* pl. xiv fig. 3 pars 6, Nikitin.

*Cyclopype prisca* (Barrande) eye-surface text-fig. 5, Bachmayer.

*Cyclopype prisca* (Barr.) p. 143, Horný & Chlupáč.

*Cyclopype* (*C.*) *rediviva* (Barrande 1846) p. 20 pl. i figs. 5, 7, *C. (Pri-cyclopype) prisca* (B. 1872) p. 18 pl. i figs. 1, 4, 6, pl. ii figs. 7–8, *C. (P.) prisca* var. *longicephala* Klouček 1919 p. 19 pl. i fig. 3, Špasov.

*Cyclopype* cf. *rediviva* (Barr.) p. 73, Horný (1).

*Cyclopype* cf. *rediviva* (Barr.) p. 282, Röhlich (2).

*Cyphaspis* sp. cf. *C. intermedia* Weller table IV, Bolton.

*Cyphoproetus depressus* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Cyrtodechenella* see *Cyrtosymbole*.

*Cyrtometopus* ? *aries* (Eichw.) & *C.?* *sphaericus* (Esmark) see *Hemisphaerocoryphe* ? *rosenthali*.

*Cyrtometopus gibbus* var. *perconvexus* Ivsh. MS pl. xv figs. 13–15, Nikitin.

*Cyrtosymbole* ? p. 178, Rabien (2).

*Cyrtosymbole* (*Macrobole*) cf. *drewerensis* R. et E. Richter p. 269 pl. i fig. 6, *C. (M.)* sp. p. 269 pl. i fig. 7, Chlupáč (5).

*Cyrtosymbole* (*C.*) *fluctuosa* sp. n. U.S.S.R. (Urals) p. 94 pl. vi figs. 1–3, *C. (C.)* aff. *crebra* Perna 1915 p. 96 pl. vi figs. 5–7, *C. (Calybole)* *antedistans* R. & E. Richter 1926 p. 98 pl. vii figs. 9–13, *C. (Cal.) pantherina* sp. n. U.S.S.R. (Kazakhstan) Devonian (Upper) p. 100 pl. vii figs. 1–6, *C. (Cal.)* aff. p. p. 103 pl. vii fig. 7, *C. (Cal.?) nepia* R. & E. R. 1926 p. 103 pl. vi fig. 4 text-fig. 14, *C. (Cal.?)* sp. p. 105 pl. vii fig. 8, *C. (Waribile)* *avita* (R. & E. R. 1919) p. 106 pl. vi fig. 13, *C. (W.)* aff. *warsteinensis* R. & E. R. 1926 p. 107 pl. vi figs. 14–16, *C.?* (*Cyrtodechenella* ?) *uralica* R. 1912 p. 109 pl. vi figs. 8–11, Maksimova Trud. VSEGEI (ns) 3 1955.

*Cyrtosymbole* (*Macrobole*) sp. I including *C. (M.)* sp. of Chlupáč 1956] p. 287 pl. ii figs. 1–5 text-fig. 3, *C. (M.)* sp. II [including *C. (M.)* cf. *drewerensis* of C. 1956] p. 288 pl. i fig. 6, pl. ii figs. 6–7 Carboniferous (Lower) Czechoslovakia (Moravia), Chlupáč Sborn. Úst. úst. geol. 24 Pal.] 1958.

*Dalmania* sp. p. 28, Leckwijck et al.

*Dalmanites cailliaudi* Verneuil nom. nud. a synonym of *Asteropyge barrandei* [quod vide] p. 5, Pillet.

*Dalmanites dimorphus* Tschernov in litt.), *D. andii* Kozl. var. *ibirica* T. p. 62, Nekhoroshev.

*Dalmanites limuluris* [sic] var. *revicaudatus* (Foerste), *D.* sp. cf. *D. verrucosus* p. 31, *D.* sp. p. 35, Huffman et al.

*Dalmanites* cf. *limulurus* (Green), *D.* sp. tables IV, V, *D. limulurus* tables VI, VII, VIII, X, XI, Bolton.

*Dalmanites* aff. *multiannulatus* Ohern p. 16 pl. ii figs. 4–5, *D.* sp. No. 1 p. 18 pl. ii fig. 9, *D.* sp. No. 2 p. 19 pl. ii fig. 7, *D.* sp. No. 3 p. 19 pl. ii fig. 8 Devonian (Lower) Mongolia, Chernysheva Trud. Mong. Kom. No. 28 1937.

*Dalmanites orba* Barr. statigraphic range pl. xi, Prantl & Vaněk (1).

*Dalmanites oriens* var. *mytoensis* Klouček type of *Zeliszkella* (*Myocephala*) subgen. n. p. 176, *D.* (*Dalmanitina*) *hawlei* record of Maillieux 1939 probably belongs to *Zeliszkella*-group but may not be *hawlei* p. 175, *D.* (*Dalmanitina*) *atavus* a. of M. 1939 probably referable to *Dalmanitina* (*D.*) not to *Ormathops* p. 175, Struve (1).

*Dalmanites weaveri* (Salter) holotype refigured [excluding Salter 1864 pl. 3 figs. 2–3, pl. 4 figs. 8–9, and Delo 1940 pl. 4 fig. 10] p. 143 pl. xxix figs. 7a–b, 8–10, Curtis.

Dalmanitid pygidium (possible) p. 862 pl. iv fig. 8 from metamorphosed ? Silurian or ? Devonian U.S.A. (Vermont), Boucot et al.

Dalmanitidae see *Acastavinae* subfam. n.

Dalmanitidae — *Zeliszkellinae* referred p. 168, Struve (1).

Dalmanitids p. 15 ff., Leckwijck et al.

*Dalmanitina* see *Dalmanites*.

*Dalmanitina* Reed 1905 discussed and referred to *Dalmanitina*-group of *Zeliszkellinae* p. 192, *D.* (*Dalmanitina*) discussed p. 194, *D.* (*D.*) *socialis* (Barrande) pl. ii fig. 14, pl. iii figs. 16a–b, 17, text-fig. 9, *D.* (*D.*) *proaeva* (Emmrich), *D.* (*D.*) *ciliensis* Šnajdr, *D.* (*D.*) *morrisiana* (B.) text-figs. 10a–b, *D.* (*D.?*) *grandis* (B.), *D.* (*D.?*) *oljni* Temple, *D.* (*D.?*) *nanchengensis* Lu [excluding pl. 154 fig. 10 to *Eudolatites* ? sp. p. 197] all so referred p. 193, *D.* (*Chattiaspis*) subgen. n. p. 198 for type *D. kegeli* R. & E. Richter 1927 Ordovician Germany (Hessen) p. 200 pl. iii figs. 18, 19a–b, 20–22, pl. iv figs. 25a–d, 26, 27a–b, 28a–b (holotype and para-

type), 29–30, 31a–b (paratype), text-figs. 12a–c, 13a–c, *D. (C.) cf. k.* pl. iii fig. 23, *D.* (subgen. ?) *mucronata* *mucronata* (Brongniart), *D.* (subgen. ?) *m. brevispina* T., *D. ? danae* (Meek & Worthen) discussed p. 206–7; *D. atava* record of H. & G. Termier 1950 discussed and may belong to *Zeliszkella* p. 175 [see also *Dalmanites*], Struve Senckenbergiana leth. 39 3–4 1958.

*Dalmanitina*-group [*Zeliszkellinae*] for *Dalmanitina* and *Eudolatites* [quae vide] p. 190, Struve (1).

*Dalmanitina macrophthalmia* (Bronniart 1822) p. 19 pl. viii figs. 5–7, Thadeu.

*Dalmanitina* cf. *phillipsi* (Barr.) p. 335 pl. xv fig. 6, Šuf.

*Dalmanitina proaeva* Emmrich, *D.* sp. p. 20, *D. cf. p.* p. 15, Leckwijck et al.

*Dalmanitina socialis* (Barr.) p. 73, Horný (1).

*Dalmanitinae* discussed p. 170, origin from *Dalmanitina*-group p. 190, Struve (1).

*Dalmanitinae* see *Neoprobolium* gen. n.

*Dalmaniturus* gen. n. [Phacopidae, probably new subfamily] p. 12 (26) for type *D. weberi* sp. n. p. 13 (27) pl. i figs. 10–15 text-figs. 3–4 Silurian W. Mongolia and U.S.S.R. (Tuva), Chernysheva Trud. Mong. Kom. No. 28 1937.

*Damesella* sp. nov. [undescr.], *D.* sp. indet., *D. ?* sp. p. 101, Kobayashi (1).

*Dartonaspis* vertical range, Shaw (1).

*Deadwoodia duris* vertical range, Shaw (1).

*Dechenella* Kayser 1880 em. Richter 1912 discussed p. 58, *D. (D.) cf. verneuili* (Barrande 1852) p. 59 pl. iii figs. 2–3, *D. (D.) polonica* Gürich p. 61 pl. iii figs. 15–17, *D. (D.) aff. p.* p. 72 pl. iii fig. 18, *D. (D.) romanovskii* Tschernyschew 1887 p. 63 pl. iii figs. 4–5 [lectotype of R. & E. Richter stated to be a pygidium p. 65], *D. (D.) aff. r.* p. 71 pl. iii figs. 12a–6, *D. (D.) arschensis* sp. n.

p. 65 pl. iii figs. 6–11, *D. (D.) longimedia* sp. n. p. 68 pl. iii figs. 14a–6, *D. (D.) lata* sp. n. p. 69 pl. iii figs. 20a–6 Devonian (Middle), *D. (D.) aff. rittbergensis* Zimmermann 1892 p. 70 pl. iii fig. 1, *D. [cf. on pl.] batchatensis* Tschernyscheva 1951 subgeneric assignment uncertain p. 73 pl. iii figs. 13a–6, *D. ? platycaudata* sp. n. Devonian (Upper) U.S.S.R. (Urals) p. 74 pl. v fig. 12; *D. (Praedechenella)* Maksimova 1952 [not seen] may be an independent genus p. 59n, Maksimova Trud. VSEGEI (ns) 3 1955.

*Dechenellinae* Přibyl 1946 emend. nov. discussed and taken to include *Dechenella*, *Paradechenella*, *Schizoproetus*, *Cyrtosymbole*, *Skemimatocare*, *Typhloproetus*, *Drevermannia* p. 57, phylogeny p. 202 chart (p. 204); *Chaunoproetus* [quod vide] removed to *Proetinae* p. 49, Maksimova (1).

*Decoroproetus* see *Proetus*.

*Decoroproetus decorus* (Barr.) pl. xiii pars, Švoboda & Prantl.

*Decoroproetus fearsnidesi* (Bancroft), *D. cf. f.* p. 219, *D. ?* sp. p. 220, Dean.

*Decoroscutellum* gen. n. [Scutellidae] p. 178 (183) for type *Bronteus haidingeri* Barrande Silurian (Upper) Bohemia, *D. binotatum* (B.) pl. ii fig. 15, *D. lepidum lepidum* (Bouček) pl. i fig. 5, *D. exoptatum* nov. sp., *D. ascriptum* nov. sp. [nom. nuda] p. 179, *B. pustulatiformis* Chernysheva and *B. uralicus* Weber also referred, Šnajdr Věstn. Úst. úst. geol. 33 3 1958.

*Decoroscutellum haidingeri* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Deiphon forbesi* Barr. stratigraphic range pl. xi, Prantl & Vaněk (1).

*Deiracephalus* sp. p. 322, Kindle & Whittington.

*Deissia* [nom. nud.] *spinosa* Sun [nom. nud.] p. 482, GRABAU 19 [omitted Z. R. 84 11].

*Delgadella souzai* (Delgado) p. 362 pl. liv fig. 4, Teixeira (2).

*Delocare* subgen. n. see *Comura*.

*Denckmannites* see *Phacopidella*.

*Diacalymene diademata* (Barr.), *D. tenuera* (B.) stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Diacalymene diademata* (Barr.) p. 337, Tomeczykowa.

*Diacalymene* ? *praecox* Bancroft p. 219, Dean.

*Dianops* see *Phacops*.

*Dianops typhlops* (Gürich 1896) p. 135 pl. iv figs. 1, 4, *D. ? trifolius* sp. n. p. 136 pl. iv figs. 2-3, text-figs. 3a-c Devonian (Upper) Poland (Holy Cross Mts.), *Osmólska* Acta palaeont. polon. 32 1958.

*Dicranogmus* list of referred spp. p. 577, Tripp.

*Dicranogmus lindströmi* Tschern. et Yak. p. 23 pl. iv fig. 4, Weber (2).

*Dicranogmus simplex* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Dicranopeltis* list of referred spp. p. 575, *D. bifurcata* (Reed) for *Lichas bifurcatus* R. including *L. bulbiceps* f. R. 1896 [excluding referred hypostome pl. 21 fig. 9 to *Platyichas laxitarsis*] p. 580; *D. ? nasuta* Veller [type of *Makromuktis Phleger*] may be referable to *Trochurus* p. 575n, Tripp.

*Dicranopeltis* ? *balkhaschicus* sp. n. p. 19 pl. iii figs. 18-19, *D. ? turensis* sp. n. p. 21 pl. iii fig. 11 Silurian U.S.S.R. [see also *Lichidae* gen. et sp. ind. 2], Weber Upper Silurian ilobites of the U.S.S.R. 1951.

*Dicranopeltis kuckersiana* Schmidt 185 p. 124 pl. xxi fig. 13, Maksimova (1).

*Dicranopeltis scabra* *scabra* (Beyrich 1845) nov. emend. neotype lected with synonym *D. aspera* Awle & Corda p. 246 pl. vi figs. 1-3, *D. scabra propinqua* (Barrande 1846) v. emend. with synonyms *D. inulosa* H. & C. & *Raymondarges porrijensis* Phleger and including *chas scabra* of B. 1852 partim (pl.

28 figs. 31-32) p. 248 pl. vi figs. 4-5, *D. scabra* hypostome pl. vi fig. 6; differences between *D. s. scabra* and *D. s. propinqua* may be sexual p. 251, stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Dicranopeltis scabra* (Beyr.) n. mut. [undescr.] p. 128, Horný (3).

? *Dicranurus monstrosus* (Barrande) p. 376, Horný (4).

*Dictyites longicauda* Kobayashi p. 212, Kobayashi (5).

*Dienstina* see *Phacopidella*.

*Dikelokephalina* ? sp. p. 262 pl. ii figs. 3-4, Sdzuy (2).

*Dimeropygiella* ? sp. p. 851 pl. ii fig. 30, Sando.

*Dinesidae* see *Botomella* gen. n.

*Dinesidae* see *Paraerbia* gen. n.

*Dinesina meisteri* Lermontova MS not found in Kazakhstan Acad. Sci. collections p. 56n, Borukaev & Ivshin.

*Dinesus kirghizensis* Lermontova MS p. 49, Borukaev & Ivshin.

*Dionide* Barrande 1847 discussed p. 70, *D. kasachstanica* sp. n. p. 72 pl. vii figs. 13-14 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Dionide* see *Polytomurus*.

*Dionide turnbulli* Whittington with synonym *Trigryops kobayashii* Hupé p. 96 pl. xiii figs. 1-8, *D. jubata* Raymond syntypes refigured with synonyms *D. želizkoi* Kobayashi and *D. rotundata* Whittard (holotype refigured) p. 98 pl. xiv figs. 1-5 text-figs. 5c-d, *D. prima* Klouček a nom. dub. p. 101, *D. euglypta* (Angelin) var. *quadrata* W. holotype and paratype refigured p. 101 pl. xiii figs. 9-10 [where called *quadrata* var. *euglypta* in error], *D. sp.* p. 102 pl. xiii fig. 11, *D. ? powisi* sp. n. for *D. sp.* Wade 1911 (refigured) Ordovician (Middle) Britain (Wales) p. 102 pl. xiii fig. 12, Whittard Palaeontogr. Soc. [Monogr.] 111 1958.

*Dionidella incisa* Prantl & Přibyl discussed p. 95 text-figs. 5a-b (cast of holotype), Whittard.

*Dipharus* Clark 1923 considered not to be an immature form of *Hebediscus*, *D. spinosus* sp. n. p. 123 (138) pl. i figs. 21-32 [including protaspides] Cambrian (Lower) China (Hupeh) [see Gen. et sp. indet.], *Chang Acta palaeont. sinica* 13 1953.

Diplagnostinae see *Dolichagnostus* gen. n.

*Diplagnostus (Linguagnostus) kashachstanensis* Ivshin sp. nov. p. 43, *D. (L.) kjerulfi* (Brögger) var. I. p. 57, Borukaev & Ivshin.

*Diplorrhina* Hawle & Corda 1847 a synonym of *Peronopsis* p. 59, many H. & C. spp. of *D. (i. a. triplicata & affinis* of which lectotypes selected and figured) synonyms of *P. cuneifera* p. 63, Šnajdr (2).

*Distazeris simplex* p. 543, Shaw (2).

*Ditomopyge parvulus* (Girty), *D. olsoni* Williams, *D. scitula* (Meek & Worthen), *D. sp.* p. 46, *D. n. sp.* [undescr.] p. 22, Wanless.

*Ditomopyge* sp. p. 472, Forbes et al.

*Ditremacephalus* [sic] sp. p. 226, Drewes.

Dolerolenidae Kobayashi may belong to Elleipocephalacea p. 260, Henningsmoen (1).

*Dolerolenus formosus* Sdzuy MS p. 465, Lotze (2).

*Dolerolenus formosus* n. sp. (Sdzuy MS) p. 737 ff., Lotze (3).

*Dolichagnostus* [misspelt *Dolichoagnostus* on pl. & p. 89] gen. n. [Diplagnostinae] p. 34 for type *D. admirabilis* sp. n. p. 36 pl. iii figs. 1-3 Cambrian (Middle) U.S.S.R. (Yakutia), *Pokrovskaya* Trav. géol. Inst. U.R.S.S. No. 16 1958.

Dolichometopidae — *Asperocare* gen. n., *Chilometopus* Rusconi 1952 and *Mendospidella* R. 1952 referred, V. Poulsen.

Dolichometopinae Walcott classification p. 470, Kobayashi (3).

*Doryagnostus incertus* (Brögger) p. 55, Borukaev & Ivshin.

*Dorypyge asturiana* sp. n. p. 240 pl. i figs. 6-7 Cambrian (Middle) Spain (Asturias), *Sdzuy* Senckenbergeriana leth. 39 3-4 1958.

*Dorypyge chinghizensis* Lermontova MS p. 55, Borukaev & Ivshin.

*Dorypyge* sp. p. 9, Klepper et al.

*Dorypyge* ? sp. p. 101, Kobayashi (1).

*Dorypygella* sp. p. 101, Kobayashi (1).

Dorypygidae see *Basocephalus*, *Paraolenoides*, *Tolanaaspis*.

*Drepanura ketteleri* Monke, *D. premesnili* Bergeron, *D. sp.* indet. p. 101, Kobayashi (1).

*Drevermannia* Richter 1909 discussed p. 121, *D. (D.) ninae* sp. n. Devonian (Upper) U.S.S.R. (Kazakhstan) p. 122 pl. ix figs. 14-15, text-fig. 19, *D. (Carnicia)* R. & E. R. 1927 discussed p. 123, *D. ? (C.) carnica* R. 1913 p. 124 pl. ix figs. 7-8, *Maksimova* Trud. VSEGEI (ns) 3 1955.

*Drevermannia (Carnicia) carnica* (R. Richter) a synonym of *Chaunoproetus palensis* (R. R.) [quod vide p. 29, Rabien (1)].

*Drevermannia (D.) moravica* sp. n. Carboniferous (Lower) Czechoslovakia (Moravia) p. 272 pl. i figs. 1-3, Chlupáč Věstn. Úst. úst. geol. 31 6 1956.

*Drevermannia (D.) moravica* Chlupáč 1956 holotype refigured p. 283 pl. i figs. 1-3 text-fig. 2, Chlupáč (8).

*Drevermannia (D.) schmidti* R. Richter, *D. (D.) s. ?, D. (D.) cf. moravica* Chlupáč, *D. (D.) cf. m. ?, D. ?* p. 178, 180-181, Rabien (2).

*Ductina* see *Phacopidella*.

*Ductina ductifrons* R. & E. Richter 1923 p. 140 pl. iii fig. 3, Osmólska.

*Dulanaspis* gen. nov. [Chugaeva 1956] discussed p. 54, *D. costatus* sp. n. p. 56 pl. vi figs. 1-5, *D. levis* sp. nov. [C. 1956] p. 58 pl. vi figs. 6-8 text-fig. 11 (reconstr.), *D. levis* var. *anderkensis* var. n. p. 60 pl. vi figs. 9-14 Ordovician (Middle and Upper) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Dunderbergia* sp. p. 227, Drewes.

*Dytremacephalus* see *Ditremacephalus*.

*Ecceparadoxides* Šnajdr 1957 discussed and referred to Paradoxidinae p. 114, *E. pusillus* (Barrande 1846) lectotype (meraspis stage 7) chosen and figured [with synonyms *Hydrocephalus saturnoides* B. 1846, *Paradoxides rugulosus* (excluding records of Brögger 1878, Bergeron 1889, Grönwall 1902, Illing 1917), *P. inflatus* partim, *Phanoptes pulcher* (lectotype selected) Hawle & Corda 1847 spp., *P. orphanus* B. 1852 (excluding records of H. & G. Termier 1950 and cf. Gigout 1937)] ontogeny described (starting with metaprotaspis Růžička's larva p. 116 ff. pl. xx figs. 1-46, pl. xxi figs. 1-19, pl. xxii figs. 1-15, pl. xxxvii fig. 33 pars, text-figs. 17 (3), 20-21 development), 22, *E. ? oelandicus* Sjögren, *E. harknessi* (Hicks), *E. nederitanus* (Pompeckj), *E. brachyrhachis* (Linnarsson), *E. ? sjögreni* repos (Grönwall), *E. insularis* (Wesergård), *E. ? acadicus* (Hartt), *E. ? iradoanus* (B. & Verneuil), *E. ? arrandei* (Barrois), *E. ? tumidus* Angelin), *E. eteminicus* (Matthew) all so referred p. 115, Šnajdr (2).

*Eccoptochile* [Hawle & Corda 1847] — *Placoparia* Whittard [quod vide] not a synonym p. 112, *Cheirurus edgwicki* record of Lake 1907 may be near to *E. clavigera* (Beyrich) p. 115, Whittard.

*Echinolichas* list of referred spp. 576, Tripp.

*Ectenonotus* cf. *westoni* (Billings) 326, cf. *E.* sp. p. 325, Kindle & Whittington.

*Ectillaenus perovalis* forma *hughesi* (Hicks 1875) p. 21 pl. ii fig. 1, Spasov.

*Ectillaenus* ? sp. p. 12 pl. vi fig. 2, Thadeu.

*Edelsteinaspis planus* Tchern. MS p. 85, Chernysheva (4).

*Edgellia* Shaw 1950 placed on Official Index as a junior objective synonym of *Trinucleus* Murchison, Opinion 505.

*Ehmania* sp. p. 333, ? *E.* sp. p. 334, Kindle & Whittington.

"*Ehmania*" sp. p. 9, Klepper et al.

*Ehmaniella* n. sp., *E.* ? sp. p. 675, Maxey.

*Elandaspis parvus* Egorova gen. et sp. nov. p. 36, Nekhoroshev.

*Eleutherocentrus* sp. p. 2359 ff., Webb.

*Elganellus* gen. n. [Neoredlichidae] p. 918 for type *E. probus* sp. n. figs. 2a-6, 4d-e, *E. pensus* sp. n. figs. 4x, 3, 4, *E. acceptus* sp. n. figs. 4u, k, 4, *E. elegans* sp. n. figs. 4, 4, o, n, p, y p. 919 Cambrian (Lower) U.S.S.R. (Yakutsk), Suvorova C. R. Acad. Sci. U.R.S.S. (ns) 122 5 1958 [Oct.]

*Elganellus cibrus* [sic] sp. nov. p. 1093, Zhuravleva et al.

*Elganellus cibrus* sp. n. p. 1075 figs. 1 (13-14) Cambrian (Lower) U.S.S.R. (Siberia), Repina C. R. Acad. Sci. U.R.S.S. (ns) 121 6 1958 [Aug.]

*Elleipocephalacea* Matthew 1887 discussed and classified into Protolenidae, *Elleipocephalidae*, ? Dolerolenidae p. 258 ff., Henningsmoen (1).

*Elleipocephalidae* Matthew classified into Strenuellinae, Palaeoleninae, Kingaspidae, Antatasiinae, *Elleipocephalinae*, ? Aldonaiinae p. 260, Henningsmoen (1).

*Elleipocephalinae* Matthew — *Alanisia*, *Hindermeyeria* and *Strenuea* referred p. 260, Henningsmoen (1).

*Elleipocephalus* Zenker 1833 placed on Official Index and emendation to *Ellipsocephalus* [quod vide] approved, Opinion 512.

*Ellipsocephalidae* Matthew 1887 placed on Official List of Family-Group Names, Opinion 512.

*Ellipsocephalidae* — *Strenuellinae* referred p. 1075, Repina.

*Ellipsocephalidae* — *Germaropyge* Šnajdr referred p. 94, Šnajdr (2).

*Ellipsocephaloïdes* recorded p. 1723, Berg & Ross.

*Ellipsocephalus* Zenker 1833 emendation from *Elleipocephalus* approved and name placed on Official List of Generic Names, *E. hoffii* (Schlotheim 1823) placed on Official List of Specific Names, Opinion 512.

*Ellipsocephalus* Zenker 1833 discussed p. 86, *E. hoffii* [sic] (Schlotheim 1823) neotype chosen and figured [with synonyms *ambiguus* Z. and *gracilis* Hawle & Corda, but excluding records of *hoffii* by Sjögren 1872 and Pompeckj 1895] p. 88 pl. vii figs. 1-8, pl. viii figs. 1-7, ? 8, pl. xix fig. 5 pars, text-fig. 14 (reconstr.), *E. vetustus* P. 1895 lectotype selected with synonyms *v. longicephalus* and *v. brachycephalus* Růžička (both holotypes refigured) and *Prototypus? bohemicus* P. 1895 p. 92 pl. vi figs. 21-22, pl. viii fig. 9, pl. ix figs. 1-11, text-fig. 15 (graphical comparison with *E. h.*); *E. tumidus* Barrande 1846 (lectotype chosen) a synonym of *Skreiaspis spinosus* p. 179, *E. nanus* B. 1846 a synonym of *Sao hirsuta* p. 205, Šnajdr (2).

*Ellipsocephalus* see Trilobite.

? *Ellipsocephalus leonicus* n. sp. (Sdzuy MS) p. 738, Lotze (3).

*Ellipsocephalus leonicus* sp. n. p. 238 pl. i fig. 5 Cambrian (Middle) Spain (León), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Ellipsostrenua alanisana* n. sp. (Sdzuy MS) p. 744, Lotze (3).

*Elmanaspis* gen. nov. (2 spp.) p. 100, Ivshin [omitted Z. R. 94 11].

*Elrathia dubia* Denson p. 651, *E. sp. undet.* p. 674, Maxey.

*Elrathina* sp. p. 333, Kindle & Whittington.

*Elrathina* sp. p. 9, Klepper et al.

*Elrathina* ? sp. p. 675, Maxey.

*Elvinia obliquoensis* Ruse. p. 90, Rusconi (2).

*Elvinia tetonensis* vertical range, Shaw (1).

*Elvinia* sp. p. 227, Drewes.

*Encrinuroïdes seebachi* (Schmidt 1881) p. 192 pl. vii figs. 5-6 text-figs. 8a-6, Männil (4).

*Encrinurus* Emmrich discussed, *E. punctatus* Wahl. p. 27 pl. iv figs. 19-20, pl. v figs. 3-5, 7-8, 11, 15, 22, *E. cf. konghsaensis* Reed including *E. ex gr. p.* of Weber 1932 *partim* (pl. 1 figs. 24, 28, 32, 34) p. 30 pl. iv fig. 21, pl. v figs. 1a-6, 2, *E. beaumonti* var. *lozvensis* var. n. p. 31 pl. v figs. 6, 9, 12, *E. beaumonti* var. *novakii* Frech ? p. 32 pl. v fig. 18, *E. magnituberculatus* Reed p. 32 pl. v fig. 13, *E. ex gr. punctatus* p. 33, *E. sp. 1* p. 33 pl. v fig. 19, *E. sp. 2* p. 34 pl. v fig. 16 Silurian U.S.S.R., Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Encrinurus (Cromus) beaumonti* (Barr.) pl. xix, Svboda & Prantl.

*Encrinurus* cf. *beaumonti* Barrande p. 27, Leckwijck et al.

*Encrinurus* cf. *cybeleformis* Raymond p. 23, Leech.

*Encrinurus* cf. *deltoides* Shumard, *E. ornatus* Hall & Whithfield [discussed p. 64], *E. tuberculifrons* Weller table IV, *E. cf. o.*, *E. sp.* table V, *E. sp.* indet. table XI, Bolton.

*Encrinurus* ? *moë* sp. n. Ordovician (Upper) including *E. multisegmentatus* ? of Schmidt 1881 p. 193 pl. vii figs. 1-4, pl. viii fig. 13, *E. rumbaënsis* Rosenstein 1941 holotype refigured p. 195 pl. vi figs. 6-8, pl. vii fig. 7 pars, pl. viii figs. 7-9, *E. kiltsiensis* R. 1941 holotype refigured

p. 198 pl. vi figs. 9–10, pl. viii figs. 5–6, *E. pilistverensis* R. 1941 holotype refigured p. 201 pl. viii figs. 1–3, *E. palmrei* [misspelt *palmeri* on pl. expl.] sp. n. p. 200 pl. viii figs. 11–12, *E. quinquecostatus* sp. n. p. 202 pl. viii fig. 10 Silurian (Lower) Estonia, *E. punctatus* (Wahl.) pl. vi fig. 5, pl. viii fig. 4, **Männil** Geol. Inst. Uurimused 3 1958.

*Enrinurus onniensis* Whittard for *Calymene* ?? *punctata* Murchison 1839 (refigured) p. 142 pl. xxix figs. 4–5, Curtis.

*Enrinurus punctatus* (Wahlenberg) 1821 p. 41 pl. xxiv figs. 7–8, 9a–6, Balashova (3).

*Enrinurus punctatus* Wahl., *E. magnituberculatus* Reed p. 17, Nikiforova.

*Enrinurus punctatus* Wahl. p. 335 pl. xv fig. 3, Šuf.

*Enrinurus punctatus* Wahl. ? p. 239, Paškevičius (2).

*Enrinurus* of. *punctatus* p. 100 (5), Rosenstein (2).

*Enrinurus reflexus*—description in abstract of variation in local population p. 25, Best et al.

*Enrinurus (E.) transiens* (Barr.), *E. (Cromus) beaumonti* (B.), *E. (C.) intercostatus* (B.), *E. (C.) bohemicus* (B.) stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Enrinurus* sp. p. 223, Dean.

*Enrinurus* sp. [(of. *punctatus*) on p. 127] p. 114, Chugaeva.

*Enrinurus* ? sp. p. 11 pl. i fig. 9, Chernysheva (1).

*Endogramma* Hawle & Corda 1847 a synonym of *Sao* p. 203, type *E. salmii* H. & C. (lectotype chosen and figured pl. xliv fig. 7) a synonym of *S. hirsuta* p. 204, Šnajdr (2).

*Enneacnemis* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *E. herschellii* H. & C. which with *E. lyelli* H. & C. is a synonym of *S. hirsuta* p. 204, Šnajdr (2).

*Entomolithus paradoxus* [var.] *expansus* Linnaeus 1768 placed on Official Index, Opinion 510.

*Entomostracites crassicauda* Wahlenberg 1821 [type of *Illaenus*] placed on Official List of Specific Names, Opinion 508.

*Entomostracites expansus* Wahlenberg 1821 designated as type of *Asaphus* Brongniart 1822 [quod vide], Opinion 510.

*Entomostracites scarabaeoides* Wahlenberg [1821] [type of *Peltura*] placed on Official List of Specific Names, Opinion 499.

*Eobronteus* Reed considered an independent genus p. 32n, Maksimova (1).

*Eobronteus* see *Bronteus*.

*Eobronteus* ? sp. p. 224, Dean.

*Eochuangia* Kobayashi 1934 — *Ataktaspis* Lochman 1944 probably a synonym p. 21, Öpik (1).

*Eodiscidae* see *Gdowia* gen. n.

*Eodiscus (Serrodiscus) of. speciosus* (Ford) p. 743ff., Lotze (3).

*Eohomalonotus* sp. p. 218, *E.* sp. (? nov.) p. 221, Dean.

*Eophacops* n. sp. [undescr.] pl. vii fig. 7 pars, Männil (4).

*Eops* R. & E. Richter discussed and referred to *Neoredlichiainae*, considered close to *Perrector* p. 257, *Gigantopygus* Hupé may be a synonym of *E.* p. 265, *E. eo* R. & E. R. with probable synonyms *Koptura* ? *pachecoi*, *Tellerina* sp. A and *Saukianda andalusiae* R. & E. R. 1940 *partim* (pl. 2 fig. 21) p. 264, Henningsmoen (1).

*Eoptychoparia kindlei* p. 531, Shaw (2).

*Eoredlichia* Chang in Lu 1953 [not seen] (for type *Redlichia intermedia* L.) a synonym of *Wutingaspis* [quod vide] p. 142, Chang (1).

*Eosaukia* gen. n. [? *Saukiinae*] p. 127 (143) for type *E. latilimbata* sp. n. p. 128 (145) pl. i figs. 5–6 Cambrian (early Upper) China (Kweichow), Lu Acta palaeont. sinica 2 2 1954.

*Epumeria* gen. n. [no family assigned], *E. lata* sp. n. p. 100 pl. figs. 5a–b Cambrian (Middle/Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1–4 1958.

*Erbia* from China p. 335, EGOROVA in Egorova & Hsiang.

*Erbia granulosa* Lerm. p. 32, Nekhoroshev.

*Ermanella* gen. n. [family not established] p. 135 for type *E. unicornis* sp. n. p. 135 pl. xxi fig. 12 Ordovician (Middle) U.S.S.R. (Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Estoniops* gen. n. [Pterygometopinae] p. 386 (388) for type *Acaste exilis* Eichwald 1858 pl. i figs. 1-6, *E. bekkeri* sp. n. p. 386 (388) pl. i figs. 7-8 Ordovician (Middle) Estonia, *Phacops (Pterygometopus) panderi* and *P. (Pt.) laevigatus* Schmidt 1881 spp. also referred to *E.* p. 386, Männil Toimetised Eesti NSV Teadustse Akad. 6 [Tech. Ser.] No. 4 1958.

*Eteraspis orbigniana* (Kayser) p. 16, V. Poulsen.

*Euarges markovskyi* sp. n. p. 22 pl. iv figs. 1, 10, *E. altirhachis* N. Tchern. [Chern.] p. 22, *E.* sp. 1 [C. 1951], *E.* sp. 2 p. 23 pl. iv fig. 3 Silurian U.S.S.R., *E. sulcifer* sp. nov. [? error pro *E. markovskyi*] p. 48, Weber Upper Silurian trilobites of the U.S.S.R. 1951.

*Eudolatites* Delo 1935 discussed and referred to *Dalmanitina*-group of Zeliszskellinae p. 207, *E. angelini* (Barrande) pl. ii fig. 13, text-figs. 15, 16, *E. of. a.* pl. ii figs. 12, 11 [hypostome possibly referable], *E. dubius* (B.), *E. ? orbus* (B.), *E. ?* sp. for *Dalmanitina nanchengensis* Lu partim [1957 pl. 154 fig. 10] p. 209, Struve (1).

*Eudolatites angelini* (Barr.) with synonym *Phacops (Chasmops) boemicus* Želízko p. 282, Röhlich (2).

*Euloma* Angelin 1854 discussed p. 267, *E.* (*Euloma*) discussed and taken to include *laeve* and *ornatum* Angelin, *filacovi* (Bergeron) [type of *Calymenopsis* B.], *boemicum* and *inexpectatum* Holub, ? spp. nos. 1 and 2 Tjernvik p. 268, *E. (E.) aff. filacovi* (B. 1889) p. 272 pl. iii figs.

2, 18, 18a, 19, *E.* (*Proteuloma*) subgen. n. p. 269 for type *Conocephalites geinitzi* Barrande 1868 and including also *monile monile* (Salter) pl. iii fig. 3, text-fig. 3 (reconstr.), *m. praemonile* Lake pl. iii fig. 6, *primordiale* Westergård, sp. L., *kettneri* Růžička, *E. (P.) geinitzi* (B. 1868) for *E.* sp. Thoral 1935 from S. France p. 271 pl. iii figs. 4-5, 7-17; *Pareuloma* Rasetti 1954 may be a subgenus of *E.*, morphological series *P. brachymetopa*-*P. impunctata*-*E.* sp. L.-*E. (Prot.) monile* suggested p. 270; *E. granulatum* Růžička 1926 probably belongs to *Eulomina* p. 268, *Sdzuy* Senckenbergiana leth. 39 3-4 1958.

*Euloma bohemicum* Hol. p. 142, Horný & Chlupáč.

*Euloma ordinata* Ivsh. MS pl. xv figs. 2-3, Nikitin.

*Eulomina* Růžička 1931 discussed and considered not related to *Euloma* but compared with *Pharostomina* p. 267, *Euloma granulatum* R. 1926 probably belongs to *Eulomina* p. 268, *Sdzuy* (2).

*Evenkaspis* Kramarenko 1952 discussed p. 31, *E. lobata* sp. n. p. 32 pl. iii figs. 4-5, *E. axilleris* [*axillaris* on pl. expl. and p. 32] sp. n. p. 34 pl. iii figs. 6-7, *E. galeata* sp. n. p. 36 pl. iii figs. 8-9 Ordovician (Middle and Upper) U.S.S.R. (Siberia), Kramarenko Materials for the Principles of Palaeontology No. 2 1958.

*Evenkaspis marina* Kramarenko 1953 [sic] p. 133 pl. xxxi figs. 1a- $\gamma$ , *E. sibiricus* (Schmidt) 1886 p. 134 pl. xxx figs. 1a- $\gamma$ , pl. xxxi fig. 4 pars, Maksimova (2).

*Fabulaspis* Ivshin gen. nov. [Familia incerta], *F. famosus* I. sp. nov. p. 44, Borukaev & Ivshin.

*Fallotaspis* Hupé discussed p. 26, C. Poulsen (2).

*Fallotaspis* discussed p. 29, Hupé (2).

? *Fieldaspis minuta* Rusconi considered incerti ordinis p. 16, V. Poulsen.

*Fissococephalus expansus* Lerm. pl. xiv fig. 6, Nikitin.

*Flexicalymene* Shirley 1936 discussed, *F. senaria* (Conrad) p. 949 pl. cxxiii figs. 1-5 [Hall's specimen 1847 pl. 64 figs. 3a-c from New York], 6-11, *F. sp. cf. F. senaria* (C.) p. 950 pl. cxxiii fig. 13, *F. senaria parvicaudata* var. n. Middle Ordovician p. 950 pl. cxxiii fig. 16, *F. quadricapita* sp. n. Upper Ordovician p. 951 pl. cxxiv figs. 2-16, *F. praelongicaudata* sp. n. Upper Ordovician p. 953 pl. cxxiii figs. 14-15, *F. planilabrum* sp. n. Middle Ordovician p. 954 pl. cxxiii figs. 19-20, *F. croneisi* (Roy) p. 955 pl. cxxiii fig. 12, *F. magnipapilla* sp. n. Middle Ordovician p. 956 pl. cxxiii fig. 17, *F. sp. cf. F. meeki* (Foerste) p. 957 pl. cxxiv fig. 17 U.S.A. (Michigan); *F. meeki* (F.) does not occur in Michigan p. 948 pl. cxxiv figs. 18-20 [from Ohio], Stumm & Kauffman J. Paleont. 32 5 1958.

*Flexicalymene acantha* Bancroft p. 219, *F. cf. acantha*, *F. sp.* p. 218, *F. caractaci* (Salter) p. 223, *F. cf. c.* p. 224, *F. aff. c.* p. 222, *F. trigonocephalus* Bancroft p. 223, *F. laticeps* B., *F. salteri* B., *F. onniensis* Shirley, *F. aff. o.* p. 224, Dean.

*Forchhammeria* Lermontova & Chernysheva gen. n. [Anomocaridae] p. 72 for type *F. elegans* L. & C. sp. n. p. 73 pl. i figs. 1-6 Cambrian (Middle) U.S.S.R. (E. Siberia), Chernysheva Trud. VSEGEI 1 1950.

*Forchhammeria acuta* sp. nov. p. 39, Chernysheva (3).

*Forchhammeria acuta* Tchern. MS p. 90, Chernysheva (4).

*Gallagnostus* Howell 1935 a synonym of *Phalacroma* p. 43, Pokrovskaya.

*Gaphuraspis apertus* Egorova sp. nov. p. 32, Nekhoroshev.

*Gdowia assatkini* gen. et sp. n. [tentatively Eodiscidae] Cambrian (Lower) U.S.S.R. (Baltic) p. 33 pl. figs. 1-2, Yanishevsky Voprosy Paleont. 1 1950.

*Gentilaspis* [gen. nondescr.] from Morocco stated to be probably close to *Olenellus gigas* from Scotland p. 164, Hupé (1).

*Gentilaspis* [gen. nondescr.] *gigas* for *Olenellus gigas* Peach recorded from Morocco p. 144, HUPÉ in Choubert.

*Geragnostella* see *Geragnostus*.

*Geragnostus* — *Trinodus* ? sp. [q. v.] may belong p. 564, Ross (1).

*Geragnostus* (*Micragnostus*) *bisectus* p. 551, Shaw (2).

*Geragnostus chiushuensis* (Kobayashi) p. 102, Kobayashi (1).

*Geragnostus olentensis* Ivsh. MS pl. xv fig. 7, Nikitin.

*Geragnostus* sp. p. 259 pl. i figs. 10-11, *G. (Geragnostella) niger* sp. n. p. 259 pl. i figs. 9, 78 Ordovician (Tremadoc) France (Hérault), Sdzu Senckenbergiana leth. 39 3-4 1958.

*Geragnostus* sp. p. 332, Kindle & Whittington.

*Germaropyge* Šnajdr 1957 discussed and referred to Ellipsocephalidae p. 94, *G. germari* (Barrande 1852) lectotype selected and figured [excluding record of Pompeckj 1895] p. 96 pl. vi figs. 23-24 text-fig. 16 (reconstr.), Šnajdr (2).

*Gigantopygus* Hupé may be a synonym of *Eops* p. 265, Henningsmoen (1).

*Glaphurina* Ulrich 1929 discussed and referred to Otariionidae p. 74, *G. dulanensis* Web. lectotype selected p. 75 pl. viii figs. 13-15, *G. weberi* sp. n. for *G. aff. lamottensis* of W. 1948 p. 76 pl. viii figs. 11-12 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Glaphurina* sp. p. 332, of. *G. [sp.]* (compared with *G. ? insolita* Tjernvik) p. 324-5, Kindle & Whittington.

*Glaphurus coronatus* sp. n. p. 125 pl. vii figs. 1, 2 (drawing) Ordovician (Lower) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

? *Glossocoryphus* sp. p. 334, Kindle & Whittington.

*Glossopleura* Poulsen 1927—following Argentinian spp. referred *Asaphus* ? *asperoensis* Rusconi 1952, *A. ? inexsulcatus* R. 1946, *Ogygopsis* ? *martillensis* R. 1952 p. 8; ? *G. pedemontana* R. 1955 considered incerti ordinis p. 16, V. Poulsen.

*Glossopleura utahensis* (Resser) p. 673, *G.* sp. undet., *G.* cf. *producta* (Hall & Whitfield) p. 675, Maxey.

*Glossopleura* sp. p. 225, Drewes.

*Glyphanellus* see *Glyphasellus*.

*Glyphasellus* Ivshin gen. nov. [Anomocaridae], *G. primus* (type), *G. latus*, *G. rimus* I. spp. nov., *G. (Glyphanellus) marginatus* I. sp. nov. p. 44, Borukaev & Ivshin.

*Glyphaspis*—assignment to Anomocaridae questioned p. 322, Lochman-Balk & Wilson.

*Glyphaspis* sp. p. 9, Klepper et al.

*Glyphaspis* ? sp. undet. p. 675, Maxey.

*Glyptagnostus* not ubiquitously contemporaneous p. 23, Öpik (3).

*Glyptagnostus reticulatus* *reticulatus* Angelin 1851 lectotype selected p. 184 pl. v fig. 17, Henningmoen (2).

*Glyptagnostus* sp. p. 37, Nekhoroshev.

*Goniacanthus* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *G. abbreviatus* H. & C. (lectotype chosen and figured pl. xlvi fig. 30) which with *G. partschii* H. & C. is a synonym of *S. hirsuta* p. 204, Snajdr (2).

*Goniagnostus* Howell 1935 emend. discussed with list of referred spp. p. 59, *G. nathersti* (Brögg.) p. 62 pl. v figs. 13–15, *G. longispinus* sp. n. p. 67 pl. v figs. 1–8, *G. longispinus* var. *latirachis* var. n. p. 70 pl. v figs. 2 pars, 9–12 Cambrian (Middle) U.S.S.R. (Yakutia), Pokrovskaya Trav. géol. Inst. U.R.S.S. No. 16 1958.

aff. *Goniophrys* p. 324, aff. *G.* sp. p. 325ff., Kindle & Whittington.

*Goniotelina* sp. for *Bathyurus caudatus* of Ulrich 1909 p. 851 pl. ii fig. 37, Sando.

*Goniotelus* sp. p. 334, Kindle & Whittington.

*Goniurus* p. 79, Kay.

*Grandagnostus* Howell 1935 a synonym of *Phalacroma* [quod vide] p. 43, Pokrovskaya.

*Gravicalymene* sp. p. 224, Dean.

*Griffithides longiceps* Portlock, *G. seminiferus* (Phillips) p. 898, Walfden.

*Griffithides moorei* vertical range, Shaw (1).

*Griffithides pustulosus* Snider p. 54, *G.* sp. cf. *G.* p. p. 57, Huffman et al.

*Griffithides* cf. *spinosus* Weber p. 109, Nekhoroshev.

*Griffithides verrucosus* p. 162, Montanaro Gallitelli.

*Hamashania* Kobayashi 1942 discussed, *H.* ? sp. p. 215 text-fig. 4, Kobayashi (5).

*Hamashania pulchera* gen. et sp. nov. Cambrian (Upper) Manchuria p. 102, Kobayashi (1).

*Hamatolenus* Hupé 1952 [sic] discussed, *H. (Hamatolenus) ibericus* sp. n. p. 236 pl. i fig. 3, *H. (Lotzeia)* subgen. n. p. 237 for type *H.* (*L.*) *lotzei* sp. n. [for *Olenopsis* ? *lotzei* and *O. ? eleganticeps* R. & E. Richter 1929 nom. *nuda*] p. 237 pl. i figs. 1 pars, 2 Cambrian (Middle) Spain (Zaragoza); *Myopsolenus* H. and *Collyrolenus* H. considered subgenera of *Hamatolenus* p. 237, Sdzyu Senckenbergiana leth. 39 3–4 1958.

*Hamatolenus* Hupé referred to *Myopsoleninae* p. 260, Henningmoen (1).

*Hamatolenus ibericus* n. sp. (Sdzyu MS) p. 730ff., *H. (Lotzeia) lotzei* subg. n. sp. (S. MS) p. 731, Lotze (3).

*Hanburiinae* — *Orkekeia ornata* Rusconi may be related p. 128, Rusconi (4).

*Haniwa quadrata* Kobayashi p. 102,  
**Kobayashi (1).**

*Hardyoides glabrus* p. 551, Shaw  
(2).

*Harpes costatus* var. *acuta* Web.,  
H. sp. p. 113, Chugaeva.

*Harpes crassifrons* Barr., *H. naumannii* B., *H. vittatus* B., *H. ungula ungula* Stnbg., *H. ungula ovatus* Bouč. stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Harpes neogracilis* R. et E. Richter 1924 p. 29 pl. i figs. 1a-6, Maksimova (1).

*Harpes ruderalis* Hawle & Corda pl. xxix, Svboda & Prantl.

*Harpes transiens* Barr. p. 366, Chlupáč (7).

*Harpes venulosus* Corda p. 4 pl. i figs. 1-2, Weber (2).

*Harpes* sp. p. 376, Horný (4).

*Harpid* p. 325 ff., Kindle & Whittington.

*Harpides mediasiaticus* Ivsh. MS pl. xv figs. 9-10, Nikitin.

*Hartshilliinae* Hupé may not belong to *Elleipocephalacea* p. 259, Henningsmoen (1).

*Hastagnostus angustus* p. 537, Shaw (2).

*Hebediscus* Whitehouse 1936 not a synonym of *Dipharus* [quod videt], *H. orientalis* sp. n. p. 121 (137) pl. i figs. 1-20, 33-37 [immature pygidial], pl. ii figs. 8-9 partes Cambrian (Lower) China (Hupeh), Chang Acta palaeont. sinica 1 3 1953.

*Hebediscus ponderosus* Lerm. listed fig. 2, Suvorova & Petropavlovsky.

*Hedinaspis kueichouensis* sp. n. with growth-series p. 129 (146) pl. i fig. 9, pl. ii figs. 1-8, pl. iii figs. 1-4 Cambrian (Upper) China (Kweichow), *H. regalis* record of Kobayashi from S. Korea discussed p. 151, Lu Acta palaeont. sinica 2 2 1954.

*Hemiarges* list of referred spp. p. 577, *H. geikiei* (Nicholson & Etheridge)—*Lichas* (*H.*) *morator* Reed [holotype refigured] a synonym p. 580 pl. lxxxv fig. 17, *H. warburgae* (Troedsson) — *Amphilichas obtusicaudatus* T. provisionally a synonym p. 580, *H. serus* (R.) for *L. (H.) s.* R. with synonym *L. (Corydocephalus) scutalis bella* R. [holotype refigured] p. 580 pl. lxxxv figs. 18-20, *H. bucklandi* (Milne Edwards) for *Peltura b.* M. E. [considered valid and recognizable] with synonyms *Arges anglicus* Beyrich and *L. (C.) anglicus wenlockensis* and *a. obtusicaudatus* R. [syntypes figured] p. 580-581 pl. lxxxv figs. 13-16, Tripp.

*Hemiarges* see *Lichas*.

*Hemiarges ambigua* (Barrande) pl. viii fig. 4, *H. heteroclyta* (B.) pl. viii figs. 5-6, stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Hemigyraspis* cf. *glabrata* (Salter 1853) p. 8 pl. iii, Thadeu.

*Hemirhodon punctatus* sp. n. p. 104 pl. figs. 10a-b Cambrian (Middle/Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Hemirhodon schucherti* Raymond, *H. viator* R., *H.* sp. indet. p. 541, Shaw (2).

*Hemisphaerocoryphe granulata* (Angelin 1854) p. 178 pl. v figs. 4-7, *H. ? rosenthali* (Schmidt 1881) for *Cheirurus* (*Cyrtometopus*) *r.* S. [excluding record of Öpik 1937 to *Ceraurinella* ? cf. *latifrons*] p. 179 pl. iii figs. 8-9, *H. ? r.* may form with *H. sulcata* Thorslund and *Cyrtometopus* ? *aries* (Eichw.) and possibly *C. ? sphaericus* (Esmark) a generically separable group, Männil (4).

*Herse* Hawle & Corda 1847 (non Oken 1815) a synonym of *Solenopleurina*, *H. neubergii* H. & C. 1847 restr. (lectotype selected and figured) a synonym of *S. tyrovicensis* p. 201, *H. neubergii* partim referred to *Skreiaspis spinosus* p. 179, Šnajdr (2).

*Hicksia elvensis* Delgado p. 363 pl. liv figs. 2-3, Teixeira (2).

*Highatella gelasinata* p. 551, Shaw (2).

*Hindermeyeria* Hupé referred to Elleipsocephalinae p. 260, probably a synonym of *Strenuaeva* p. 266, Henningsmoen (1).

? *Hoekaspis mendozaensis* sp. non descr. Cambrian (Middle) Argentina (Mendoza) p. 239 pl. i fig. 1, Rusconi Rev. Soc. Hist. Geogr. Cuyo 1 1946. (1).

*Holmia* may need to be removed from Olenellidae. p. 10, *H. kjerulfi* pygidium compared with that of female *Redlichia forresti* p. 19, Öpik (1).

*Holmia* recorded from Olenellus fauna of N.W. Greenland p. 26, C. Poulsen (2).

*Holmia* see Undetermined Olenellidae.

*Holmia mirabilis* sp. n. p. 15 pl. iii figs. 5-8 Cambrian (Lower) Greenland (N.W.), C. Poulsen Medd. Grønland 162 2 1958.

? *Holmia* sp. (headshield) p. 744, Lotze (3).

*Holotrachelus punctillosum* Törnquist holotype [lectotype] designated p. 62 pl. vii figs. 3-4 text-fig. 126 [recorded also from Lower Silurian p. 14], *H. punctillosum* var. *incurvus* Web. lectotype selected Ordovician (Middle) p. 63 pl. vii figs. 5-12 text-fig. 12a, Chugaeva.

*Homagnostus* see *Agnostus*.

*Homagnostus hoi* (Sun) p. 336, Ho in Egorova & Hsiang.

*Homagnostus* cf. *pisiformis* *pater* (Holm & Westergaard) p. 676, Maxey.

*Homagnostus* sp. p. 552, *Homagnostus* (or *Proagnostus*) recorded p. 539, Shaw (2).

*Homagnostus* (*Kormagnostus* ?) sp. p. 101, Kobayashi (1).

Homalonotid p. 25ff., Leckwijk et al.

*Homalonotus armatus* Burmeister p. 134, *H.* sp. p. 133ff., Röder.

*Homalonotus armatus* Burmeister s. l. p. 35, *H.* sp. p. 37ff., *H.* ? sp. p. 69, Rösler (2).

*Homalonotus* cf. *armatus* *aculeatus* Koch p. 121, *H.* sp. p. 116ff., Rösler (1).

*Homalonotus* (*Trimerus*) *mongolicus* sp. n. p. 9 (25) pl. i figs. 4-8 text-fig. 2 Silurian W. Mongolia, Chernysheva Trud. Mong. Kom. No. 28 1937.

*Homalonotus* (*Schizopyge*) *paraná* Clarke 1913 type of *Tibagya* gen. n. p. 301, Struve (4).

*Homalonotus pradoanus* de Verneuil p. 68 text-fig., Renaud.

*Homalonotus rhenanus* Koch (det. R. Richter) p. 12, Solle.

*Homalonotus* sp. p. 35, Leckwijk et al.

*Homalonotus* (spine), *H.* sp. (det. Dahmer) p. 30, Pauly.

*Homalops* Remelé 1885 (non Mot-schulsky 1850) not renamed as it can be replaced by its synonym *Calyptaulax* Cooper 1930 p. 302, Struve (4).

*Homodictya* see *Blountia*.

*Homotelus lenaensis* sp. n. p. 122 pl. xxi figs. 7-10 Ordovician (Middle) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Hoplolichas* list of referred spp. p. 576, Tripp.

*Housia* sp. p. 227, Drewes.

*Hungaia* p. 330, Kindle & Whittington.

*Hungaia magnifica* assemblage age discussed p. 339ff., Lochman-Balk & Wilson.

*Hungaia puelchana* Ruse. p. 89, Rusconi (2).

*Hungioides bohemicus aroquensis* subsp. n. Ordovician (Middle) Portugal (Douro) p. 7 pl. ii figs. 1-2, pl. vi fig. 3, Thadeu Bol. Soc. geol. Portug. 12 1-2 1956.

*Hydrocephalus* Barrande 1846 nov. emend. with synonym *Phlysacium* Hawle & Corda 1847 p. 129, type designated *H. carens* B. 1846 lectotype (meraspid stage 8 or 9) chosen and figured [with synonyms *Phlysacium paradoxum* H. & C., *Paradoxides linnaei* B. partim, *P. inflatus* H. & C. partim, *P. dormitzeri* H. & C., *P. jahni* Pompeckj 1895, & including *P. spinosus* of B. 1852 partim and of some later authors] ontogeny described (starting with protaspis Suf's larva) p. 130ff. pl. xxiv figs. 1-38, pl. xxv figs. 1-21, pl. xxvi figs. 1-11, pl. xxvii figs. 1-10, pl. xxviii figs. 1-2, pl. xxix fig. 1, pl. xxx fig. 1, pl. xlvi figs. 1-3, 5, 7-8 (parasitic structures and teratology), text-figs. 17 (2), 23-24 (development), 25-26, *H. minor* (Boeck 1827) neotype chosen [with synonyms *Trilobites major* B., ? *Olenus latus* Zenker, *P. linnaei* B. [ ? partim], *P. latus* H. & C., *P. imperialis* B. (but on expl. pl. xxviii fig. 2 holotype (1852 pl. 13 fig. 19) is referred tentatively to *H. carens*), and *P. spinosus* of B. 1852 partim (pl. 12 figs. 3-7, pl. 13 fig. 2) but not of Wurm 1925 nor Neltner 1938] p. 139 pl. xxiii figs. 1-18, pl. xxix figs. 2-3, pl. xlvi fig. 2, *H. rotundatus* (B. 1846) holotype refigured p. 141 pl. xvii fig. 4, pl. xviii figs. 1-2, *H. lyelli* (B. 1852) holotype refigured p. 141 pl. xvii figs. 2-3 pl. xviii figs. 3-6, pl. xix figs. 1-14, pl. xxvii figs. 11-12, text-figs. 27, 28 (1-3), *H. sp.* pl. xlvi fig. 1, *H. hicksi hicksi* (Salter) and *H. h. palpebrosus* (Linnarsson) so referred p. 130; *H. saturnoides* B. a synonym of *Eccaparadoxides pusillus* p. 116, Šnajdr (2).

*Hypagnostinae* subfam. n. [Peronopsidae] p. 43, Ivshin Izv. Acad. Sci. Kazakhstan S.S.R. No. 119 [Geol. No. 15] 1952.

*Hypagnostinae* Ivshin 1953 [sic] stated to include *Hypagnostus* and *Cotalagnostus* p. 81n, Pokrovskaya.

*Hypagnostus truncatus* (Brögg.) p. 81 pl. iii figs. 7-9, *H. excultus* (Ang.) p. 84 pl. iii figs. 10-12, Pokrovskaya.

*Hypagnostus brevifrons* Ang. p. 36, Nekhoroshev.

*Hypagnostus franklinensis* p. 537, Shaw (2).

*Hypagnostus sublatus* Ivshin sp. nov. p. 43, *H. parvifrons* (Linnarsson) p. 55, *H. brevifrons* (Angelin) p. 57, Borukaev & Ivshin.

*Hypagnostus sulcifer* (Walc.), *H. cf. excultus* (Ang.) p. 907, Dvortsova.

*Hypagnostus truncatus* p. 333, Kindle & Whittington.

*Hypagnostus umbonatus* (Hawle & Corda 1847) lectotype figured p. 69 pl. iv figs. 12-18, Šnajdr (2).

*Hysterolenus* see Undetermined genus and species No. 3.

Hystricurid trilobite indet. p. 851, Sando.

*Hystricurus aff. flectimembrus* Ross, *H. ? sp.* p. 72, Hallam.

*Hystricurus* sp., ? *H. sp.* p. 324ff. Kindle & Whittington.

*Hystricurus* sp., *H. ? sp.* p. 13, Leech.

*Hystricurus* sp. p. 18, Maher.

*Hystricurus* sp. p. 118 pl. vii figs. 3-4, Maksimova (2).

*Idahoia* recorded p. 1723, Berg & Ross.

*Idahoia minor* Raymond 1937 see *Vermontella*.

*Idahoia wyomingensis* vertica range, Shaw (1).

*Iddingsia orientalis* sp. n. p. 214 text-fig. 1 Cambrian (Upper) S. Korea; *I. ? shantungensis* Kobayashi referred to *Berkeia* p. 214, Kobayashi Trans. palaeont. Soc. Japan (ns) No. 30 1958.

*Idiomesus tantillus* p. 549, Shaw (2).

*Illaenidae* Hawle & Corda 1847 (emended from *Illaenides*) placed on Official List of Family-Group Names, Opinion 508.

*Illaenides* Hawle & Corda 1847 see *Illaenidae*.

*Illaenids* see Undetermined genus and species No. 2.

*Illaenids* p. 324ff., Kindle & Whittington.

*Illaenoides* see *Illinoides*.

*Illaenurus* cf. *albertensis* Resser p. 12, Leech.

*Illaenus* Dalman [1827] protected by suppression of *Cryptonymus* and placed on Official List of Generic Names, *I. crassicauda* (Wahlberg 1821) & *I. wahlenbergii* (Eichwald 1825) placed on Official List of Specific Names, Opinion 508.

*Illaenus* habits discussed p. 43ff., *I. sinuatus* Holm pl. i fig. 1 text-fig. 1, *I. revaliensis* H. pl. i figs. 2-3, *I. chudleighensis* H. pl. i fig. 4, *I. roemeri* Volb. pl. ii fig. 1, Siegfried.

*Illaenus* sp. cf. *I. americanus* Billings p. 31, Huffman et al.

*Illaenus convexicollis* Web., *I. linnarssoni* Holm, *I. oviformis* Warb. p. 113, *I. sp. nov.* [undescr.] p. 114, Chugaeva.

*Illaenus feilaishihensis* Sun p. 200 pl. vii fig. 3, Sheng.

*Illaenus intermedius* Holm 1886 p. 16 pl. vii figs. 4-5, *I. cf. roemeri* p. 8, Balashova (3).

*Illaenus katzeri* Barrande text-fig. 3, Bachmayer.

*Illaenus katzeri* Barr. p. 143, Horný & Chlupáč.

*Illaenus oviformis* Warb. p. 879, Bykova.

*Illaenus panderi* Barr. p. 73, Horný (1).

*Illaenus roemeri* Volb. p. 115, Paškevičius (1).

*Illaenus thomsoni* Salter 1851 p. 123 pl. ix fig. 4, Maksimova (2).

"*Illaenus*" cf. *tumidifrons* Billings p. 326, *I. sp.* p. 332, "*I.*" *arcuatus* B., *I. t. B.*, *I. consobrinus* B. p. 334, Kindle & Whittington.

*Illaenus* n. sp. [undescr.] p. 72, Röhlich (1).

*Illaenus* sp. p. 5 pl. i fig. 1, Chernysheva (1).

*Illaenus* sp. p. 224, Dean.

*Illaenus* sp. p. 32, Hetzer.

*Illaenus* sp. p. 445, Hong.

*Illaenus* sp. pp. 83, 84, Kay.

*Illaenus* ? sp. p. 2367, Webb.

*Illinoides* [sic] *triloba* Weller p. 32, Huffman et al.

"*Inouyia*" *abaris* Walcott p. 100, Kobayashi (1).

*Inouyia capax* Walcott p. 334, HSLANG in Egorova & Hsiang.

*Inoyellaspis* Ivshin gen. nov. [Agraulinae], *I. expectans* I. sp. nov. (type) p. 43, *I. difformis* (Angelini) var. *chinghizensis* var. nov. p. 57, Borukaev & Ivshin.

*Inoyellaspis insolens* Egorova sp. nov. p. 36, Nekhoroshev.

*Irvingella* from Manchuria p. 138, Lu.

*Irvingella gibba* vertical range, Shaw (1).

*Isalaux bifolius* sp. n. p. 131 pl. xxx fig. 3 Ordovician (Middle) U.S.S.R. (Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Isbergia* Warburg — "*I.*" *virginica* Cooper (which is probably congeneric with Undetermined genus and species No. 1) probably not referable p. 567, Ross (1).

*Ischyrotoma twenhofeli* Raymond p. 334, Kindle & Whittington.

*Isidrella bispinata* Rusconi discussed p. 128, Rusconi (4).

*Isocoliid* p. 334, Kindle & Whittington.

*Isoteloides* p. 79, Kay.

*Isoteloides* cf. *I. flexus* Hintze including *Isotelus canalis* of Ulrich 1909 pp. 849, 851 pl. ii figs. 33-35 Sando.

*Isotelus* DeKay 1824 discussed p. 48, *I. romanovskyi* Web. holotype [lectotype] designated p. 49 pl. v figs. 1-5, *I. levis* sp. n. p. 50 pl. v figs. 6-10 Ordovician (Middle) U.S.S.R. (Kazakhstan), *I. aktschokensis* W. p. 113, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Isotelus canalis* of Ulrich 1909 referred to *Isoteloides* cf. *I. flexus* p. 851, Sando.

*Isotelus gigas* var. *hupeiensis* (Sun) restr. p. 198 pl. vi figs. 3a-h, *I. taningensis* (Weller) including *gigas* var. *h*. S. partim (pl. 1 fig. 3c) p. 199 pl. vi figs. 2a-d, *I. sp.* p. 201, Sheng.

*Isotelus maximus* Locke 1838 p. 121 pl. xxx figs. 6a-r, pl. xxxi fig. 4 pars, *I. aff. robustus* F. Roemer p. 122 pl. xxxi fig. 2, Maksimova (2).

*Isotelus* cf. *platyrhachis* St. p. 115, Paškevičius (1).

*Isotelus* cf. *platyrhachis* p. 8, Balashova (3).

*Isotelus* aff. *stacyi* Schm. p. 44, Nekhoroshev.

*Isotelus* sp. p. 13, Burns.

*Isotelus* sp. pp. 83, 84, Kay.

*Isotelus* sp. p. 2340, Webb.

*Ithycephalus* sp. p. 322, Kindle & Whittington.

Jakutidae Suvorova MS [Coryn-exochoidea]-*Malykania* gen. n. referred p. 920, Suvorova.

*Jincella* Šnajdr 1957 discussed and referred to Solenopleurinae p. 196, *J. prantli* (Růžička 1944) holotype refigured p. 197 pl. xli figs. 10-25, text-fig. 42 (reconstr.), *J. bucculenta* (Grönwall), *J. munsteri* (Strand), *J. ferganensis* (Lermontova) all so referred p. 197, Šnajdr (2).

*Judomia dzevanovskii* Lerm. listed fig. 2, Suvorova & Petropavlovsky.

*Kainella* from New Mexico p. 343, R. H. FLOWER in Lochman-Balk & Wilson.

*Kainella billingsi* (Walcott) p. 13, Leech.

*Kainella lohanpoensis* sp. n. p. 187 pl. i figs. 2a-j Ordovician (Lower) China (Szechuan & Kweichow), Sheng Acta palaeont. sinica 6 2 1958.

*Kainella* sp. p. 16, Maher.

*Kaskia chesterensis* Weller & Weller p. 71, Huffman et al.

*Kassinius* Ivshin gen. nov. [Familia incerta], *K. kassini* (type), *K. pensus* I. spp. nov. p. 44, Borukaev & Ivshin.

*Kawina* cf. *vulcans* (Billings) p. 326, *K. v.* p. 334, Kindle & Whittington.

*Keidelia* [Harrington & Leanza 1957] may be related to *Carolinites* and Komaspids p. 144, Ross (2).

*Keithia* sp. p. 323ff., Kindle & Whittington.

*Keithiella* sp. p. 323, Kindle & Whittington.

*Kettneraspis* see *Leonaspis*.

*Kijanella* gen. n. [Strenuellinae] p. 1075 for type *K. magna* sp. n. p. 1076 figs. 1 (10-12), *K. diffusica* sp. n. p. 1076 figs. 1 (5-6) Cambrian (Lower) U.S.S.R. (Siberia), Repina C. R. Acad. Sci. U.R.S.S. (ns) 121 6 1958.

*Kijanella diffusica* gen. nov. sp. nov., *K. magna* sp. nov. p. 1093, Zhuravleva et al.

*Kingaspidinae* Hupé referred to Elleipocephalidae p. 260, Henningsmoen (1).

*Kingstonia* ? recorded p. 539, *K. scrinum* p. 543, Shaw (2).

*Kingstonia gibbosa* Lerm. pl. xiv figs. 3 pars B, 12, Nikitin.

*Kingstonia parallelia* sp. n. p. 213 text-figs. 2a-b [where called *K. longispinus*] Cambrian (Upper) S. Korea; Wanwanian spp. referred to *K.* may not belong, Kobayashi Trans. palaeont. Soc. Japan (ns) No. 30 1958.

*Kingstonia* sp. p. 322, Kindle & Whittington.

*Kingstonia* sp. p. 33, Wheeler.

*Kingstoninae* see *Semicyclocephalus* & *Semisphaerocephalus*.

*Kistocare mendozanum* (Rusconi) for *Plesioparabolina* m. R. 1945 with synonym *Syspacephalus asperoensis* R. 1952 pp. 14, 18; *Alokistocare modestum* Lochman 1952 probably referable to *K.* p. 11, V. Poulsen.

*Kjerulphia (Andalusiana) cornuta* n. subg. n. sp. (Sdzuy MS) p. 743-4, Lotze (3).

*Kloučekia* cf. *phillipsi* (Barr.) p. 73, Horný (1).

*Kloučekia* n. sp. [undescri.] p. 75, Röhlich (1).

*Kochina* sp. p. 531, Shaw (2).

*Koldinioidia typicalis* Kobayashi p. 102, Kobayashi (1).

Komaspids - *Keidelia* may be related p. 144, Ross (2).

*Kootenia anabarensis* Lerm., *K.* sp. (cf. *anabarensis* L.) p. 668, *K. jaktensis* L. listed fig. 2, Suvorova & Petropavlovsky.

*Kootenia incerta* (Rusconi) considered well-founded p. 19, V. Poulsen.

*Kootenia magnaformis* Egorova sp. nov. p. 32, Nekhoroshev.

*Kootenia marcoui*, *K. boucheri* p. 531, Shaw (2).

*Kootenia* cf. *punctata* Kobayashi p. 49, *K. milleri* sp. nov. p. 50, *K. typica* Lermontova MS p. 55, *K. karatauensis* L. MS, *K. abacanica* (Pol.), *K.* cf. *dawsoni* Walcott, *K.* cf. *convoluta* Resser, *K.* ex gr. *convoluta*, *K.* sp. nov. Pokrovskaya (near *K. siberica* L.), *K.* sp. p. 60, Borukaev & Ivshin.

*Kootenia quadriceps* (Hall & Whitfield) p. 676, Maxey.

*Kootenia* sp. p. 333ff., Kindle & Whittington.

*Kootenia* [sp. indet.] p. 332, *K. modicus* (Whitehouse) [forms near to] p. 334, *K.* [n. spp.] [undescr.] p. 335, Egorova & Hsiang.

*Kooteniella acuta* Tohern. MS p. 85, Chernysheva (4).

*Koptura* ? *pachecoi* R. & E. Richter probably a synonym of *Eops eo* R. & E. R. p. 264, Henningsmoen (1).

*Kormagnostus* see *Homagnostus*.

*Kormagnostus* recorded p. 539, Shaw (2).

*Kormagnostus esterius* Lochman p. 11, Klepper et al.

*Kosovopeltis* gen. n. [Scutelluidae] p. 177 (182) for type *K. svobodai* sp. n. p. 178 (183) pl. ii figs. 8-13, *K. nuntia* (Barrande) holotype refigured pl. ii fig. 14, *K. partschi* (B.), *K. hornjí* nov. sp., *K. parvispina* nov. sp., *K. plasi* nov. sp. [nom. nuda] p. 178 Silurian (Upper) Bohemia, Šnajdr Věst. Úst. úst. geol. 33 3 1958.

*Kosovopeltis partschi* (Barr.), *K. nuntius* (B.) stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Kounamkites* sp. listed fig. 2, Suvorova & Petropavlovsky.

*Kujandaspis kujandensis* gen. et sp. nov., *K. longus* sp. nov. [not seen], *K. ? rarus* sp. nov. p. 29, Ivshin.

*Kujandaspis kujandensis* Ivsh. pl. xiii fig. 3, Nikitin.

*Kujandina taskudukensis* gen. et sp. nov. p. 29, Ivshin.

*Kyphocephalus bridgerensis* vertical range, Shaw (1).

*Latiredlichia* Hupé 1952 [sic] a synonym of *Redlichia* p. 34, Špík (1).

*Latiredlichia* Hupé discussed and probably a synonym of *Redlichia* p. 256, *L. saitoi* H. a homonym and synonym of *R. saitoi* Lu p. 256n, Henningsmoen (1).

*Latiredlichidae* Hupé 1952 [sic] a synonym of *Redlichidae* p. 34, Œpik (1).

*Latiredlichidae* Hupé discussed and considered a synonym of *Redlichidae* p. 256, Henningsmoen (1).

*Leiagnostus* Jaekel 1909 a synonym of *Phalacroma* p. 43, **Pokrovskaya**.

*Leiagnostus miqueli* sp. n. p. 260 pl. i figs. 12–15 Ordovician (Tremadoc) France (Hérault), Sdzuy Senckenbergiana leth. 39 3–4 1958.

*Leiagnostus resectus* (Grönwall), ? *L. r.*, *L.* sp. p. 738, **Lotze** (3).

*Leiocoryphe* recorded p. 539, *L. prisca* ? p. 543, **Shaw** (2).

*Leiocoryphe* sp. p. 323ff., **Kindle & Whittington**.

*Leiolichas* list of referred spp. p. 575, **Tripp**.

*Leiostegium* see Indeterminate trilobite.

*Leiostegium formosa* Hintze, *L. manitouense* Walcott p. 13, **Leech**.

*Leiostegium mudgei* sp. n. p. 565 pl. lxxxiii figs. 21–26, *L.* sp. p. 566 pl. lxxxiii figs. 19–20 Ordovician (Lower) U.S.A. (Nevada), Ross J. Paleont. 32 3 1958.

*Leiostegium* cf. *L. puteatum* Raymond p. 849 pl. ii figs. 28–29; *L. manitouensis* [Walcott] stated (fide R. J. Ross) to be indistinguishable from *L. puteatum* p. 842, **Sando**.

*Leiostegium* sp. p. 324, **Kindle & Whittington**.

*Leiostegium* sp. p. 18, **Maher**.

*Lejopyge* Corda 1847 emend. discussed p. 72 with list of referred spp., *L. laevigata* (Dalm.) p. 76 pl. v figs. 16–17, **Pokrovskaya**.

*Lejopyginae* see *Pseudophalacroma* gen. n.

*Leonaspis* (*L.*) *pectinifera* (Barande) pl. iv fig. 1, *L.* (*Kettneraspis*) *propinqua* (B.) pl. iv fig. 2, *L.* (? *K.*) *portlocki* (Hawle & Corda) holotype figured pl. viii fig. 2, *L.* (*L.*) *leonhardi* (B.), *L.* (*L.*) *dormitzeri* (B.), *L.* (*L.*) *geinitziana* (H. & C.), *L.* (*L.*) *roemeri* (B.), *L.* (*Acanthalomina*) *minuta* (B.) stratigraphic ranges pl. xi, **Prantl & Vaněk** (1).

*Leonaspis* (*Kettneraspis*) sp. p. 366, **Chlupáč** (7).

*Lepidoproetus* see *Proetus*.

*Leptopilus* recorded p. 324, **Kindle & Whittington**.

*Lermontovia grandis* (Lerm.), *L. convexa* Suv., *L. dzevanovskii* (L.), *L. ex gr. grandis* p. 668, *L. lenaica* S. p. 669, **Suvorova & Petropavlovsky**.

*Levinia brachypygae* Rusc. p. 106, **Rusconi** (3).

*Lichacea* list of referred spp. pp. 575–578, list of subjective synonyms p. 579, **Tripp**.

*Lichas* list of referred spp. p. 575, *L. klouceki* Růžička, *L. praecursor* Holub and *L. sinensis* Sun considered Lichinae incerti generis p. 576, *L. radugini* Weber considered Ceratarginae incerti generis p. 578, *L. depressus* Angelin, *L. planifrons* A., *L. eichwaldi* kaiserl. Hoffman and *L. sexpunctatus* H. considered nomina dubia p. 578, *L. pumila* McCoy [type lost] and *L. nodulosus* Salter [cast of holotype refigured pl. lxxxv fig. 5] synonyms of *Platylichas laxatus* (M.) although *L. n.* may prove to be a subsp. p. 578, *L.* (*P.*) *vicinus* Reed a synonym of *P. crescenticus* (R.) p. 579, *L.* (*Metopolichas* ?) *congruens* R. a synonym of *P. thraivensis* (R.) p. 579, *L. barrandei* Fletcher and *L. rotundifrons* Angelin [holotype refigured pl. lxxxv fig. 11] synonyms of *P. grayi* (F.) p. 580, *L. bulbiceps* Salter 1873 [so dated and accredited] also a synonym of *P. grayi* (F.) p. 580, *L. bulbiceps* record of Reed 1896 [non hypostome pl. 21 fig. 9 to *P. laxatus*] referred to *Dicranopeltis bifurcata* (R.) p. 580, *L.* (*Acrolichas*) *tenuilobatus* R. [holotype refigured pl. lxxxv fig. 12] a synonym of *Amphilichas ardmillanensis* (R.) p. 580, *L.* (*Hemiariges*) *morator* R. [holotype refigured pl. lxxxv fig. 17] a synonym of *H. geikiei* (Nicholson & Etheridge) p. 580, *L.* (*Corydocalpe*) *cephalus* *scutalis* *bella* R. [holotype refigured pl. lxxxv fig. 19] a synonym of *H. serus* (R.) p. 580, *L.* (*C.*) *anglicus* *wenlockensis* and *a.* *obtusicaudatus* R. [syntypes of latter figured pl. lxxxv figs. 15–16] synonyms of *H. bucklandi* (Milne Edwards) p. 581, *L. armata* *geesiana* Richter a

synonym of *Ceratarges armatus* a. Goldfuss [fide Richter] p. 579, *L. (Pseudartabas) vafer* Lamont 1943 [sic] considered nom. nud. and stated [fide A. Lamont] to be probably not a Lichid p. 578, Tripp.

*Lichas balliviani* Kozlowski & L. sp. Barrois 1884 referred to *Lobopyge* to which *L. australis* McCoy is probably also related p. 589, Erben (3).

“*Lichas*” *jukesi* Billings p. 326ff., Kindle & Whittington.

*Lichas nitidulus* Barrande 1872 a synonym of *Cheirurus minutus* B. 1846 and referred to *Perunaspis* p. 29n, Prantl & Vaněk (2).

*Lichas (Corydocephalus) sisovae* sp. n. p. 6 (24) pl. i fig. 3, *L. (C.) cf. hirsutus* Fletcher p. 7 pl. i fig. 2 text-fig. 1 Silurian W. Mongolia, Chernysheva Trud. Mong. Kom. No. 28 1937.

*Lichas* (probably *Metopolichas*) new species [undescr.] p. 18, Männil (1).

*Lichas* (s. l.) sp. indet. p. 223, Dean.

Lichidae — list of referred spp. p. 575ff.; *Lichas (Pseudartabas) vafer* Lamont probably [fide A. Lamont] not a Lichid p. 578, Tripp.

Lichidae gen. et sp. ind. 1 (*Tetralichas* ?), Lichidae gen. et sp. ind. 2 (*Dicranopeltis* ? *turensis* sp. n. ?) p. 24 Silurian U.S.S.R., Weber (2).

Lichinae — list of referred spp. table 1; Lichinae incerti generis — following spp. so referred *Lichas klouckei* Růžička, *L. praecursor* Holub, *L. sinensis* Sun p. 576, Tripp.

*Linguagnostus* see *Diplagnostus*.

*Linguaphillipsia* Stubblefield 1948 discussed with emended diagnosis and referred with query to Phillipsiidae, *L. divergens* sp. n. p. 883 pl. cxiii figs. 18–25 text-figs 9a, b Carboniferous (Lower) Australia (N.S.W.), pygidium of *L. d.* is indistinguishable from that of “*Phillipsia*” *proxima* Mitchell p. 886, Cvancara J. Paleont. 32 5 1958.

*Liobole* see *Phillibole*.

*Liobolina* R. & E. Richter 1951 compared with *Moschoglossis* gen. n. p. 235, Goldring.

*Liobolina* ? sp. sp. listed p. 72, Rabien (1).

*Lioparia* sp. p. 466, Chien.

*Liostracidae* see *Agasella* gen. n.

*Liostrucina krausei* Monke p. 101, Kobayashi (1).

*Liostracus jacutensis* Pokr. MS p. 89, *L. suntensis* Tchern. MS p. 91, Chernysheva (4).

*Liostracus tenkensis* sp. nov. p. 39, Chernysheva (3).

*Lisania* recorded p. 334, HSIANG in Egorova & Hsiang.

*Lisania ajax* (Walcott) p. 101, Kobayashi (1).

*Lisogorites* gen. n. [Incertae sedis] p. 105 for type *L. striatus* sp. n. p. 106 pl. xi figs. 15–21 Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Litagnostus raymondi* p. 552, Shaw (2).

*Lloydia* sp. p. 324, Kindle & Whittington.

*Lloydolithus* Bancroft 1933 discussed p. 77, *L. lloydii* (Murchison) holotype refigured with synonym *Trinucleus lloydii* var. *corndensis* Salter (lectotype selected and figured) p. 79 pl. xi figs. 4–18, Whittard.

*Lobocephalina* Růžička 1939 a synonym of *Conocephalina* [quod vide] p. 191, Šnajdr (2).

*Lobocephalus* Růžička 1939 a synonym of *Conocephalina* [quod vide] p. 191, Šnajdr (2).

*Lobopyge* Přibyl & Erben 1952 not a synonym of *Acanthopyge*, *L. (Nitidulopyge)* P. & E. a synonym of *Perunaspis* P. 1949, *L. (N.) devonica* P. & E a synonym of *P. longispina* P., *L. (N.) nitidulus* (Barrande 1872) a synonym of *P. minuta* (B. 1846), Prantl & Vaněk (2).

*Lobopyge* Přibyl & Erben — following spp. referred *Arges consanguineus* Clarke, *Lichas* sp. Barrois 1884, *L. balliviani* Kozlowski; *L. australis* McCoy probably also related to *L. p. 589*, Erben (3).

*Lochmannia* [nom. nud.] see *Blackwelderia*.

*Lodenicia* gen. n. [Prionopeltiinae] p. 234 for type *Phaëtonellus dentatulus* Novák 1890 p. 235 pl. ii fig. 4 Silurian (Middle) Bohemia, Prantl & Vaněk Sborn. Úst. úst. geol. 24 [Pal.] 1958.

? *Loganellus* sp., ? aff. *Loganellus* sp. p. 323, Kindle & Whittington.

*Loganopeltis depessoformis* [sic] Ivsh. MS pl. xv figs. 11–12, Nikitin.

*Loganopeltoides* sp. p. 322, ? *L.* sp. p. 323, Kindle & Whittington.

*Lonchocephalus vetus* Tchern. MS p. 91, Chernysheva (4).

*Lonchodomas* Angelin 1854 discussed p. 30, *L. karakanensis* Weber (in coll.) sp. n. for *L. cf. domatus* of W. 1948 Ordovician (Middle) U.S.S.R. (Kazakhstan) p. 31 pl. i fig. 18, pl. ii figs. 1–2, *L. tecturmasi* W. p. 32 pl. ii figs. 3–5, Chugaeva Trud. geol. Inst. S.S.R. 9 1958.

*Lonchodomas* see *Lonehodomus*.

*Lonchodomas halli* (Billings) p. 83, Kay.

*Lonchodomas pennatus* (La Touche) p. 224, Dean.

*Lonehodomus* cf. *rastratus* (Sorr.) [? recte *Lonchodomas* cf. *rostratus* (Sars)] p. 44, Nekhoroshev.

*Longianda* Hupé discussed and considered a synonym of *Saukianda* p. 258, *L. termieri* Neltner & Poctey lectotype selected p. 257 n, Henningsmoen (1).

*Longianda* Hupé considered a multisegmented Bathyuriscid (not a Redlichiid) p. 35, Öpik (1).

*Longiproetus* subgen. n. see *Proetus*.

“*Lorenzella*” *peculiaris* sp. nov. Cambrian (Middle) Manchuria, *L.* sp. p. 101, Kobayashi (1).

*Lotagnostus* Whitehouse 1936 discussed p. 140, *L. lermontovai* sp. n. p. 125 (141) pl. i figs. 2–3, *L.* sp. p. 126 (143) pl. i fig. 4 Cambrian (Upper) China (Kweichow), Lu Acta palaeont. sinica 2 2 1954.

*Lotzia* subgen. n. see *Hamatolenus*.

*Luhops* Šnajdr 1957 discussed and referred to Centropleurinae p. 152, *L. expectans* (Barrande 1852) lectotype selected and figured with synonym *Paradoxides rosae* Růžička 1944 restr. (lectotype figured) p. 153 pl. xxxi figs. 1–7, text-figs. 29–30 (reconstrs.), 31, Šnajdr (2).

*Lunolenus lunae*, *L. prior* Sdzuy MS p. 465, Lotze (2).

*Lunolenus prior*, *L. lunae* n. g. n. spp. (Sdzuy MS), *L.* sp. p. 737, Lotze (3).

*Lusatiops ribotanus* R. & E. Richter, *L.* sp. p. 730, Lotze (3).

*Lusatiops sinensis* sp. n. with young stages p. 128 (143) pl. ii figs. 1–16, 34–39, *L.* sp. with young stages p. 129 (144) pl. ii figs. 17–25, 29–33 Cambrian (Lower) China (Hupeh), Chang Acta palaeont. sinica 1 3 1953.

*Lusatiops* n. sp. [undescri.] p. 168, GLAESSNER in Sprigg.

*Macrobole* see *Cyrtosymbole*.

*Macropyge chermi* Stubblefield 1927 text-figs. 1, 2 (reconstr.), *M. sica* Sdzuy 1955 text-fig. 3 pp. 287–8, Sdzuy (3).

*Makromuktis* Phleger may be a synonym of *Trochurus* [not of *Dicranopeltis*] to which its type *Dicranopeltis* ? *nasuta* Weller may belong p. 575n, Tripp.

*Malykania* gen. n. [Jakutidae] p. 920 for type *M. gribovae* sp. n. figs. 3a–b, 4c, m,  $\phi$ , *M. grandis* sp. n. figs. 4x,  $\mu$ , *M. noctuensis* sp. nov. MS [nom. nud.] p. 920 Cambrian (Lower) U.S.S.R. (Yakutsk), Suvorova C. R. Acad. Sci. U.R.S.S. (ns) 122 5 1958.

*Manchuriella* type [sic] Resser & Endo, *M.* 2 spp. p. 100, Kobayashi (1).

*Manchuriella* sp. p. 50, Borukaev & Ivshin.

*Mapania* ? sp. p. 100, Kobayashi (1).

Marjumidae considered root of many N. American Upper Cambrian families p. 327, Lochman-Balk & Wilson.

*Marrolithus ornatus* Sternberg p. 20ff., Leckwijk et al.

*Maryvillia arion* (= *Protillaenus marginatus*) p. 543, Shaw (2).

*Maryvillia wyomingensis* vertical range, Shaw (1).

*Megalaspides alienus* (Barr.) p. 143, Horný & Chlupáč.

*Megalaspides schmidti* Lam. p. 209, Janusson (2).

*Megalaspis heros* Dalman 1828 p. 13 pl. ii figs. 3-5, Balashova (3).

*Megalaspis planilimbata* Ang. p. 44, Nekhoroshev.

*Megalaspis pogrebowi* Lam. p. 209, Janusson (2).

*Megalaspis* ? *silus* sp. n. p. 120 pl. xxi fig. 2 Ordovician (Middle) U.S.S.R. (E. Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Megalaspis* n. sp. Westergård 1909 referred tentatively to *Niobella primaeva* W. 1909 p. 185, Henningsmoen (2).

*Megistaspis heros* (Dalm.) pl. xv fig. 1, *M. sp.* pl. xv fig. 2, *M. limbata* (Boeck) pl. xv fig. 4 pp. 334-335, Suf.

*Meisterella* Ivshin gen. nov. [Familia incerta], *M. meistery* [meisteri on p. 57] I. sp. nov. p. 44, Borukaev & Ivshin.

*Mendoparabolina pirquinensis* Rusconi discussed and considered an Olenid p. 129, Rusconi (4).

*Mendospidella* Rusconi 1952 referred to Dolichometopidae with type species designated as *Clavaspidella digesta* Lanza 1947 with synonym *M. quebradensis* R. p. 6 pl. i figs. 1-3 [meraspides], V. Poulsen.

*Menevia venulosa* (Salter) p. 55, Borukaev & Ivshin.

*Meneviella venulosa* p. 333, Kindle & Whittington.

*Mephiarges* see *Acanthopyge*.

*Mesocrepicephalus* cfr. *magna* (Walcott) p. 464 pl. xviii fig. 2, Kobayashi (2).

*Mesodema* Whitehouse 1939 a synonym of *Redlichia* [quod vide] p. 36, Öpik (1).

*Metacalymene baylei* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Metacanthina* see *Asteropyge*.

*Metadoxides richterorum* Sdzuý MS p. 465, Lotze (2).

*Metadoxides richterorum* n. sp. (Sdzuý MS) p. 737, *M. sp.* p. 730, Lotze (3).

*Metagraulos* recorded p. 333, Ho in Egorova & Hsiang.

*Metagraulos* ? *intermedius* sp. n. Cambrian (Middle) China (Shansi) p. 465 pl. xviii figs. 6-10. Kobayashi J. geol. Soc. Japan 49 No. 591 1942.

*Metanomocare adversus* Egorova sp. nov. p. 36, Nekhoroshev.

*Meteoraspis* ? *minuta* p. 543, Shaw (2).

*Meteoraspis* sp. p. 322, Kindle & Whittington.

*Metisaspis* recorded p. 539, Shaw (2).

*Metopolichas* list of referred spp. p. 575, Tripp.

*Metopolichas* see *Lichas*.

*Metopolichas anderkensis* Web. holotype [lectotype] designated p. 77 pl. viii figs. 16-17, Chugaeva.

*Metopolichas* ? aff. *verrucosa* (Eichwald) p. 218, Dean.

*Mexicella stator* p. 531, Shaw (2).

*Micmacca* aff. *coloi* Hupé p. 730, Lotze (3).

*Micmacca tumida* Suvorova [not seen] p. 668, Suvorova & Petropavlovsky.

*Micragnostus* see *Geragnostus*.

*Micropyge* Hawle & Corda 1847 a synonym of *Sao* p. 203, type *M. backhofenii* H. & C. a synonym of *S. hirsuta* p. 205, Šnajdr (2).

*Millardia* sp. p. 322, Kindle & Whittington.

*Miquelina* Thoral 1931 a synonym of *Taihungshania* Sun [quod vide] p. 192, Sheng.

*Miraspis ceryx* sp. n. p. 42 pl. iii figs. 1-4 Ordovician (Lower) Sweden (Öland), Whittington & Bohlin Publ. palaeont. Instn Univ. Uppsala No. 22 1958.

*Miraspis mira* (Barr.) pl. xi,  
Svoboda & Prantl.

*Miraspis mira mira* (Barrande)  
pl. v figs. 1-3, *M. mira crassicornis*  
(Hawle et Corda 1847) nov. emend.  
lectotype selected and figured with  
synonyms *Odontopleura hoseri* H. &  
C. and *Acidaspis hawlei* B. [type of  
*Selenopeltoides*] p. 241 pl. v figs. 4-6,  
stratigraphic ranges pl. xi, Prantl &  
Vaněk (1).

*Miraspis* sp. p. 337, Tomeczykowa.

*Missisquoia typicalis* p. 551, Shaw  
(2).

*Monadella* Barrande 1847 a syno-  
nym of *Sao* p. 203, Šnajdr (2).

*Monadina* Barrande 1846 a syno-  
nym of *Sao*, *M. omicron* B. (lectotype  
chosen and figured pl. xlivi fig. 7) and  
*M. distincta* B. synonyms of *S.  
hirsuta* p. 205, Šnajdr (2).

*Monorakos lopatini* Schmidt p. 42  
pl. v fig. 20, *M. sibiricus* S., *M.  
schmidti* Toll p. 43 pl. vi fig. 16,  
Weber (2).

*Moschoglossis* gen. n. [no family  
assigned, compared with *Cumming-  
ella* and *Liobolina*] p. 234 for type  
*M. decorata* *decorata* subsp. n. p. 236  
pl. xlivi figs. 1-7, *M.* sp. A p. 240  
pl. xlivi fig. 12 Britain (S.W. England),  
*M. decorata* *brevicauda* subsp. n. p.  
238 pl. xlivi figs. 8-11 Belgium and  
France Carboniferous (Lower),  
Goldring Palaeontology 1 3 1958.

*Mundocephalina* gen. n. [Incertae  
sedis] p. 1077 for type *M. pervulgata*  
sp. n. p. 1078 figs. 1 (1-3) Cambrian  
(Lower) U.S.S.R. (Siberia), Repina  
C. R. Acad. Sci. U.R.S.S. (ns) 121  
6 1958.

*Mundocephalina pervulgata* gen.  
nov. sp. nov. p. 1093, Zhuravleva  
et al.

*Myopsoleninae* Hupé taken to  
include *Myopsolenus*, *Collyrolenus*,  
*Hamatolenus* p. 260, Henningsmoen  
(1).

*Myopsolenus* Hupé 1952 [sic] con-  
sidered a subgenus of *Hamatolenus*  
p. 237, Sdzuy (1).

*Mytocephala* subgen. n. see *Zelisz-  
kella*.

*Namiolenoides asperoensis* (Rus-  
coni) discussed and so referred p. 125,  
Rusconi (4).

*Nasocephalus obliquoensis* sp. n.  
p. 88 pl. fig. 4 Cambrian (Upper)  
Argentina (Mendoza), Rusconi Rev.  
Mus. Hist. nat. Mendoza 11 1-4 1958.

*Neoblackwelderella* [nom. nud.]  
tawenkuensis Sun [nom. nud.] p. 714,  
GRABAU 19 [omitted Z. R. 84 11].

*Neoprobolium* gen. n. [Dalmani-  
tinae] (nom. n. for *Probolium* Oeh-  
lert 1889 non Costa 1853) for type  
*Asaphus nasutus* Conrad 1841 p. 301,  
Struve Senckenbergiana leth. 39 3-4  
1958.

*Neoredlichia* Saito 1936 discussed  
and may be a synonym of *Redlichia*,  
*N. latigena* Hupé closer to *Perrector*  
p. 256, Henningsmoen (1).

*Neoredlichia* Saito discussed and  
considered possibly a subgenus of  
*Redlichia* p. 35, Moroccan sp. assigned  
to *N.* may not be congeneric with  
type p. 10, Öpik (1).

*Neoredlichiidae* see *Neoredlichiinae*.

*Neoredlichiidae* see *Elganellus*  
gen. n.

*Neoredlichiinae* Hupé discussed  
and name retained provisionally  
(although *Neoredlichia* may be a  
synonym of *Redlichia*) p. 256, *Eops*  
and tentatively *Abadiellidae* re-  
ferred p. 257, Henningsmoen (1).

*Nephranops* see *Phacops*.

*Nevadia* tentatively recorded p. 7,  
Leech.

*Nieszkowskia* [sic] close to *N.  
ahti* Öpik p. 18, Männil (1).

*Nieszkowskia capitalis* Öpik p. 334  
pl. xiv figs. 1-2, Šuf.

*Nieszkowskia osmussaarensis* sp. n.  
for *Sphaerexochus cephaloceras* of  
Nieszkowski 1859 partim (pl. 1  
figs. 14-15 refigured) and *Cheirurus*  
(*N.*) *variolaris* of Schmidt 1881  
partim (pl. 9 figs. 1a-b) p. 182 pl. iv  
figs. 1-2, *N. tallinnensis* sp. n. p. 183  
pl. iv figs. 8-9, *N. ahtioides* sp. n.  
p. 184 pl. iv fig. 7, *N. limuca* sp. n.  
p. 185 pl. iv figs. 5-6 Ordovician  
(Middle) Estonia, Männil Geol. Inst.  
Uurimused 3 1958.

*Nieszkowskia rariplustulata* Web. p. 113, Chugaeva.

*Nieszkowskia stubblefieldi* Bancroft p. 219, Dean.

Nileids see Undetermined genus and species No. 2.

*Nileus* [cf. on table text-fig. 2] *tengriensis* Web. p. 113, Chugaeva.

*Nileus* sp. p. 326ff., Kindle & Whittington.

*Ninaspis tchernyshevae* gen. et sp. nov. p. 29, Ivshin.

*Niobe* (*Niobella*) Reed 1931 discussed and taken to include *aurora* Westergård, *homfrayi* Salter, *h. smithi* Stubblefield, *innotata* (Barrande) p. 265, *N. (Niobella) aff. innotata* (B. 1868) p. 266 pl. ii figs. 5-13; spp. of *Niobe* arranged to show development of notched hypostome text-figs. 1A-E, Sdzuy (2).

*Niobe asiatica* Ivsh. MS pl. xv fig. 6, *N. saryarkensis* I. MS pl. xv fig. 8, Nikitin.

*Niobe* cf. *journeti* Thoral p. 15, Leckwijk et al.

*Niobe tenuistriata* sp. n. p. 46 pl. iv figs. 7-9 text-fig. 9 (reconstr.) Ordovician (Middle) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.R. 9 1958.

*Niobella* see *Niobe*.

*Niobella* [? on pl. expl.] *primaeva* Westergård 1909 including tentative-ly *Megalaspis* n. sp. W. 1909 p. 185 pl. vi figs. 1-9, Henningsmoen (2).

*Nitidulopyge* see *Lobopyge*.

*Notocoryphe totoralensis* sp. n. p. 102 pl. figs. 9a-b, *N. andinus* Rusc. p. 104 Cambrian (Middle/Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Obrucheviaspis inornatus* gen. et sp. nov. p. 29, Ivshin.

*Octobranteus* gen. n. [Bronteidae] p. 36 (42) for type *O. khodalevitchi* sp. n. Silurian (Upper) U.S.S.R. (Urals) p. 37 (42) pl. v figs. 14-16, text-fig. 5, *Bronteus franconicus* Gümbel probably also referable to *O.* p. 42, Weber Mater. VSEGEI [Pal. & Strat.] 4 1945.

*Octobranteus* Weber diagnosis, *O. khodalevitchi* Web. p. 13 pl. ii figs. 7-8, Weber (2).

*Odontochile* ? p. 911, Nagibina et al.

*Odontochile auriculata* (Dalman) pl. xxxiv, Svoboda & Prantl.

*Odontochile caudatum* Brünnich p. 43, Weber (2).

*Odontochile* sp. p. 376, Horný (4).

*Odontopleura mira* (Barrande) text-fig. 10, Bachmayer.

*Odontopleura ovata* Emmerich 1839 discussed p. 238; *O. hoseri* Hawle & Corda a synonym of *Miraspis mira crassicornis* p. 241, *O. ovata* and *O. dufrénoyi* Barr. stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Odontopleura ovata* Emmerich pl. xii, Svoboda & Prantl.

*Odontopleura ovata* Emmerich p. 337 pl. ii fig. 11, Tomeczykowa.

*Odontopleuracea* sp. ind. p. 334 pl. xiv fig. 3, Šuf.

*Odontopleurid* of Tjernvik 1956 discussed p. 43, Whittington & Bohlin.

*Odontopleuridarum* inc. gen. p. 240 pl. viii fig. 3, Prantl & Vaněk (1).

*Ogygites* Tromelin et Lebesconte 1875 discussed with synonyms *Pseudobasiliacus* Reed and *Birmanites* Sheng p. 37, *O. kolovae* sp. n. for *O. cf. birmanicus* of Kolova 1936 and of Weber 1948 Ordovician (Upper) p. 39 pl. iii figs. 9-16 text-fig. 6 (reconstr.), *O. almatiensis* sp. n. Ordovician (Middle) p. 42 pl. iv figs. 1-6 text-fig. 8 (reconstr.) U.S.S.R. (Kazakhstan), Chugaeva Trud. geol. Inst. S.S.R. 9 1958.

*Ogygites kolovae* Chugaeva p. 383, Dyufur.

*Ogygopsis klotzi* (Rominger) ? p. 349 pl. i fig. 2, Stoyanow.

*Ogygopsis martillensis* Rusconi 1952 referred to *Glossopleura* p. 8, V. Poulsen.

Olenellidae — relations with *Redlichia* discussed p. 33, *Holmia* may need to be removed p. 10, Öpik (1).

Olenellidae see Undetermined Olenellidae.

*Olenellus* p. 8, Leech.

*Olenellus brachycephalus*, *O. thompsoni*, *O. vermontanus* p. 531, *O. sp.* indet. p. 528, Shaw (2).

*Olenellus carinatus* sp. n. p. 11 pl. i figs. 9-10, pl. ii fig. 4, *O. laevis* sp. n. p. 11 pl. i fig. 11, *O. troelseni* sp. n. p. 12 pl. ii figs. 1-3 Cambrian (Lower) Greenland (N.W.); *O. arcticus* Poulsen may belong to *Wanneria* p. 6n, *O. truemanii* Walcott see Undetermined Olenellidae, C. Poulsen Medd. Grønland 162 2 1958.

*Olenellus gigas* Peach referred to *Gentilaspis* gen. nondescr. and recorded from Morocco p. 144, HUPÉ in Choubert.

*Olenellus thompsoni* (Hall) from Venezuela p. 416, Schwarck Anglade.

Olenid gen. indet. p. 332, Kindle & Whittington.

Olenidae — discussion of several Argentinian forms referred to family, Rusconi (4).

Olenidae see *Prohedinia* gen. n.

*Olenoides* p. 332, *O. sp.* p. 334, Kindle & Whittington.

*Olenoides borukkævi* Ivshin sp. nov., *O. opinatus* I. sp. nov., *O. spp.* I and II p. 43, *O. kirghizensis* Lermontova MS, *O. maidanensis* sp. nov. p. 50, *O. cf. asiaticus* Kobayashi p. 55, Borukaev & Ivshin.

*Olenoides convexus* Lerm. listed fig. 2, Suvorova & Petropavlovsky.

*Olenoides* sp. p. 675, Maxey.

*Olenopsis* ? *lotzei* and *O. ? elegan-*  
ticeps R. & E. Richter 1929 nom. nuda referred to *Hamatolenus* (*Lotzeia*) *lotzei* sp. n. p. 237, Sdzuy (1).

*Olenetella olenensis* gen. et sp. nov., *O. shidertensis* sp. nov. p. 29, Ivshin.

*Olenetella shidertensis* Ivsh. pl. xiii figs. 5-6, *O. olenensis* I. pl. xiii fig. 7, *O. ex gr. shidertensis* pl. xiii fig. 10, Nikitin.

*Olenus* ? *acanthurus* Angelin 1854 placed on Official List of Specific Names, original designation as type of *Protopeltura* [quod vide] set aside, Opinion 499.

*Olenus longicaudatus*, *O. pyramidalis* Zenker 1833 spp. synonyms of *Paradoxides gracilis* p. 107, *O. latus* Z. a synonym of *P. g.* or of *Hydrocephalus minor* p. 139, Šnajdr (2).

*Olenus tellecheai* (Rusconi) described p. 123 text-fig. 1, *O. multicos-*  
*tatus* R. described p. 124 text-fig. 2, *O. obliquensis* R. excluded from Olenidae p. 128, Rusconi (4).

? *Olenus triangulatus* sp. n. Cambrian (Middle) Argentina (Mendoza) p. 240 pl. i figs. 2-3, Rusconi Rev. Soc. Hist. Geogr. Cuyo 1 1946.

*Omeipsis* Kobayashi 1951 discussed with synonym *Parataihungshanica* Sheng 1941 [? MS or nom. nud.] p. 197, *O. huangi* (Sun) p. 198 pl. v fig. 3, Sheng.

*Omeishania* Sun [nom. nud.] *yühsienssüensis* S. [nom. nud.] p. 424, GRABAU 19 [omitted Z. R. 84 11].

*Onchocephalus parvus* (Walcott) pl. xxv fig. 6 and *O. thia* (W.) pl. xxv fig. 5 systematic position and relations to *Crassifimbra walcotti* (Resser) discussed p. 164, Palmer.

*Onchocephalus* ? *teucer* p. 531, Shaw (2).

*Onchometopus* sp. p. 83, Kay.

*Onchonotellus abnormis* sp. nov. p. 29, Ivshin.

*Onchonotopsis* recorded p. 539, *O. eminens* p. 537, Shaw (2).

*Onchonotus* sp. p. 322ff., ? *O. sp.*, cf. *O.* p. 324, Kindle & Whittington.

*Onnia* Bancroft 1933 — *Broegger-*  
*olithus* B. may be a junior synonym, *O. terryi* [(Leith)] tentatively referred to *Salterolithus* p. 89, Whittard.

*Onnia cobboldi* (Bancroft) pl. xxvi fig. 14, *O. gracilis* (B.) pl. xxvi fig. 15, *O. superba* (B.) pl. xxvi fig. 16 p. 225, Dean.

*Oriella* [sic] sp. p. 531, Shaw (2).

*Orkekeia ornata* Rusconi discussed and may be related to Hanburiinae p. 128, Rusconi (4).

*Ormathops* Delo 1935 discussed and referred to *Zeliszkellina*-group of *Zeliszkellinae* p. 182, *O.* (*Ormathops*) discussed p. 184, Formenkreis of *O.* (*O.*) *atavus* (Barrande) pl. i figs. 2a-b, pl. ii fig. 9 [*atavus a.*] text-figs. 6a-b [with vars. *microphthalmalus*, *intermedius*, *transiens* pl. i figs. 1, 5, *macrophthalmus* Novák pl. i figs. 3a-b, 4a-b] discussed p. 185 [excluding records of *atavus* by H. & G. Termier 1950 (probably to *Zeliszkella*) and Maillieux 1939 (probably to *Dalmanitina* (*D.*)) p. 175]; Formenkreis of *O.* (*O.*) *barroisi* (Klouček) including *O.* (*O.*) *nicholsoni* (Salter) p. 187; Formenkreis of *O.* (subgen. ?) *mirus* Šnajdr including *O.* (subgen. ?) *inflatus* (Želízko) text-fig. 7, *O.* (subgen. ?) *formosus* (Ž.) text-fig. 8 p. 188 [this Formenkreis may belong to *Zeliszkella* p. 189], Struve (1).

*Ormatops* [sic] *atavus* (Barr.) p. 143, *O.* aff. *atavus* p. 142, Horný & Chlupáč.

*Orphanaspis orphana* (Barr.), *O.* ? *solitaria* (B.) statigraphic ranges pl. xi, Prantl & Vaněk (1).

*Orria* (pygidium which seems to be) p. 329, Kindle & Whittington.

*Oriella* see *Oriella*.

*Oriella* sp. p. 333, Kindle & Whittington.

*Oryctocephalops frischenfeldi* listed fig. 2, Suvorova & Petropavlovsky.

*Oryctocephalus* not in deep water in Argentina p. 4, *O.* (*Vinäkainella*) [sic] Rusconi 1952 suggested to be abandoned as a subgeneric name, *O. asperoensis* R. with synonym *V. spinulosa* R. p. 6, *O. pentacantha* R. a separate sp. p. 6, V. Poulsen.

*Otarion* aff. *barrandei* (Corda) p. 17, *O.* sp. ind. p. 18 pl. iii fig. 6, *O.* (*Schmidtella*) Tschernyschew [Chern.] 1893 discussed, *O.* (*S.*) *uralicus* (Tschern.) [refigured] p. 18 pl. ii figs. 11a-6, pl. iii fig. 10, Weber (2).

*Otarion ceratophthalmus* Goldf. text-fig. 13, Bachmayer.

*Otarion diffractum* nováki Bouček p. 375, Horný (4).

*Otarion ibericum uralicum* subsp. n. Devonian (Upper) U.S.S.R. (Urals) p. 126 pl. v figs. 14a-b, 15, *O.* sp. p. 128 pl. v fig. 13, Maksimova Trud. VSEGEI (ns) 3 1955.

*Otarion* (*O.*) sp. p. 236 pl. ii fig. 5, *O.* ? *humillimum* (Barrande) pl. ii fig. 6, *O.* (*O.*) *diffractum* d. Zenker stratigraphic range pl. xi, Prantl & Vaněk (1).

*Otarion* sp. p. 223, Dean.

*Pachyrhachis oweni* Walcott p. 676, Maxey.

*Paedeumias* p. 8, Leech.

*Paedeumias groenlandicus* sp. n. p. 13 pl. ii figs 5-6, *P.* sp. [possibly spp.] ind. p. 14 pl. ii fig. 7, pl. iii fig. 1, *P.* ? *macrophthalmus* sp. n. p. 14 pl. iii figs. 2-4 Cambrian (Lower) Greenland (N.W.); *Callavia brevirostra* Poulsen possibly referable to *P.* p. 6n, C. Poulsen Medd. Grønland 162 2 1958.

*Paedeumias* sp. from Venezuela p. 416, Schwarck Anglade.

*Pagezia altaica* (Pol.), *P. katunica* (P.) p. 32, Nekhoroshev.

*Pagezia* sp. p. 333, Kindle & Whittington.

*Pagezides parkeri* p. 531, Shaw (2).

*Pagetellus lenicus* (Toll), *P. tolli* Lerm. p. 668, Suvorova & Petropavlovsky.

*Pagetina infirma* Egorova sp. nov. p. 32, Nekhoroshev.

*Pagetina* sp. nov. [undescr.] listed fig. 2, Suvorova & Petropavlovsky.

*Paladin mucronatus* (Girty) p. 65 ff., *P. morrowensis* (Mather) pp. 79, 84, Huffman et al.

*Palaeolenidae* see *Palaeoleninae*.

*Palaeolenidae* see *Resimopsis* gen. n.

*Palaeoleninae* Hupé referred to *Elleipocephalidae* p. 260, Henningsmoen (1).

*Palaeolenus* see *Paleolenus*.

*Palaeolenus douvillei* Mansuy, *P. tingi* Lu, *P.* [n. sp.] [undescr.] p. 332, LEE in Egorova & Hsiang.

*Palaeolenus velatus* n. sp. (Sdzuy MS) p. 730, *P. cf. v.* p. 741, Lotze (3).

*Paleolenus* [sic] *douvillei* Mansuy p. 130 (145) pl. ii fig. 28, Chang (1).

*Papillicalymene husseyi* sp. n. [reference to *P.* somewhat uncertain p. 959] p. 957 pl. cxxiii fig. 18 Ordovician (Upper) U.S.A. (Michigan), Stumm & Kauffman J. Paleont. 32 5 1958.

*Parabailiella languedocensis* Thoral p. 731 ff., Lotze (3).

*Parabasilius powisi* (Murchison) p. 220, *P. p.?* p. 219 ff., Dean.

*Parabasilius tungkouyuanensis* sp. n. p. 199 pl. vii figs. 1a-g Ordovician (Middle) China (Kweichow), Sheng Acta palaeont. sinica 6 2 1958.

*Parabolina* (*Namiolenoides*) see *Namiolenoides*.

*Parabolina argentina* (Kayser) 1876 from Venezuela p. 542 pl. lxxx figs. 1-5, Frederickson.

*Parabolina evansi* of Wilson—*Parabolinella pentacantha* Rusconi compared p. 127, Rusconi (4).

*Parabolinella* from Nevada p. 342, L. F. Hintze & J. M. Greene in Lochman-Balk & Wilson.

*Parabolinella pentacantha* Rusconi discussed and compared with *Parabolina evansi* record of Wilson p. 127, Rusconi (4).

*Parabolinella triarthroides* p. 551, Shaw (2).

*Parabolinella* of. *triarthroides* Harrington p. 332, *P. sp.* p. 322 ff., Kindle & Whittington.

*Parabolinopsis* see *Andesaspis*.

*Paracalmonia* gen. n. [Calmoniinae] (nom. n. for *Proboloides* Clarke 1913 non Valle 1893) for type *Proboloides cuspidatus* C. 1913 p. 301, Struve Senckenbergiana leth. 39 3-4 1958.

*Paracedaria montanensis* (Duncan) p. 11, Klepper et al.

*Paraceraurus* gen. n. [Cheirurinae] p. 169 for type *Ceraurus aculeatus* Eichwald 1860 neolectotype [sic] (Öpik 1937 pl. 17 figs. 1-3) selected & figured p. 172 pl. i fig. 1 text-fig. 2 (reconstr.) Ordovician (Middle) Estonia, following spp. also referred to *P.*—*C. gladiator* E., *Cheirurus exul* Beyrich, *macrophthalmus* Kutorga, *spinulosus* Nieszkowski, *wahli* Öpik p. 170, Männil Geol. Inst. Uurimused 3 1958.

*Parachangshania* gen. n. [Changshaniidae] p. 467 for type *P. hsiaoshihensis* sp. n. ontogeny described p. 468 pl. i figs. 1-14, pl. ii figs. 1-15, pl. iii figs. 1-7, pl. iv figs. 1-7 Cambrian (Upper) China (Northeast), Chien Acta palaeont. sinica 6 4 1958.

*Paracoosia pulchra* sp. nov. p. 38, Chernysheva (3).

*Paracoosia pulchra* Tchern. MS p. 91, Chernysheva (4).

*Paradechenella* Richter 1912 emend. nov. discussed p. 75, *P. tschernyschewi* (R. 1909) emend. nov. discussed p. 77 & four forms distinguished among pygidia p. 79:-f. *crebra* pl. v figs. 3-4 [not assigned to *crebra* on pl. expl.], f. *multituberculata* pl. v fig. 5, f. *angusta* pl. v figs. 6-7, f. *cristata* pl. v fig. 8 [pl. v figs. 1-2 *tschernyschewi* cranidium & cheek, form unassigned], *P. markovskii* Maksimova 1953 [holotype refigured pl. iv fig. 7] discussed p. 81 & three forms distinguished among pygidia p. 84:-f. *lata* pl. iv figs. 1-4, 6-8 [not assigned on pl. expl.], f. *intermedia* pl. iv fig. 9, f. *angusta* pl. iv figs. 5, 10-11, *P. aff. m.* p. 90 pl. iii fig. 19, *P. mucronata* M. 1953 p. 86 pl. iv fig. 12 [photograph of designated type], *P. quarta* sp. n. p. 87 pl. iv figs. 13a-6, *P. quinta* sp. n. p. 88 pl. iv figs. 14a-6, 15 Devonian (Middle) U.S.S.R. (Urals), Maksimova Trud. VSEGEI (ns) 3 1955.

*Paradoxida* Lermontova—erection not justified p. 104, Šnajdr (2).

Paradoxida indet. teratological thorax & pygidium pl. xlvi fig. 6, Šnajdr (2).

*Paradoxides* Brongniart 1822 discussed p. 105, *P. gracilis* (Boeck 1827) neotype chosen & figured [with synonyms *Olenus longicaudatus*, *pyramidalis*, ? *latus* Zenker 1833 spp. & *P. boemicus* (Boeck MS) Sternberg 1833 including many later references to the latter sp.] p. 106 pl. xi figs. 2-4, pl. xii figs. 1-19, pl. xiii figs. 1-12, pl. xiv figs. 1-8, pl. xv figs. 1-4, pl. xlvi fig. 4 (teratological segment), text-figs. 17(1), 18 (CH, I-O), 19 (graph); list of spp. referred to *P.* p. 106 [see also *Acadoparadoxides*, *Eccaparadoxides*, *Hydrocephalus*, *Luhops*]; *P. rosae* Růžička referred *partim* to *Phalagnostus nudus* p. 78 & sp. restr. (lectotype chosen) to *Luhops expectans* p. 155, *P. rugulosus* of R. 1943 *partim* (pl. 2 figs. 2-5) & *P.* sp. ind. Raymond 1914 referred to Raymondova larva p. 216, *P. suboelanicus* Poletaeva validity doubtful as no holotype designated but may be related to *Acadoparadoxides* p. 147; *P. tejřovicensis*, *P. kuštai*, *P. walcotti*, *P. perneri* Smetana 1921 spp. reproductions of S.'s figures pl. xlvi figs. 4-7, Šnajdr (2).

*Paradoxides*—*Centropleura* may not be closely related p. 204, Špík (2).

*Paradoxides mureroensis* n. sp. (Sdzuy MS), *P. rouvillei* Miquel, *P. pradoanus* Verneuil & Barrande, *P. mediterraneus* Pompeckj, *P. brachyrhachis* Linnarsson p. 731 ff., *P. m.* or *P. b.* p. 731, *P. cf. b.* p. 732 ff., *P. sp. p.* 735, Lotze (3).

*Paradoxides mureroensis* sp. n. [nom. nud. R. & E. Richter 1929] p. 239 pl. i figs. 1 pars, 12-13 Cambrian (Middle) Spain (Zaragoza), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Paradoxides rugulosus* Corda text-fig. 2, Bachmayer.

*Paradoxides* sp. listed fig. 2, Suvorova & Petropavlovsky.

*Paradoxidinae* Emmerich 1839 discussed with ontogenetic histories p. 98, see also *Acadoparadoxides*, *Eccaparadoxides* & *Hydrocephalus*, Šnajdr (2).

*Paraerbia* gen. n. [Denesidae (recte Dinesidae)] for type *P. pusillifica* [pussilla on pl. expl.] sp. n. p. 1077

fig. 1(4) Cambrian (Lower) U.S.S.R. (Siberia), Repina C. R. Acad. Sci. U.R.S.S. (ns) 121 6 1958.

*Paraerbia pusillifica* gen. nov. sp. nov. p. 1093, Zhuravleva et al.

cf. *Parahystricurus* sp. p. 332, Kindle & Whittington.

*Paramegalaspis sinensis* sp. n. p. 189 pl. ii figs. 4a-e Ordovician (Lower) China (Kweichow), Sheng Acta palaeont. sinica 6 2 1958.

*Paramicmaca siberica* Lerm., *P. petropavlovskii* Suvorova [not seen] p. 668, *P.* sp. listed fig. 2, Suvorova & Petropavlovsky.

*Paraolenoides* Ivshin gen. nov. [Dorypygidae], *P. medoevi* I. sp. nov. (type), *P. kassini* I. sp. nov., *P. vodorezovi* I. sp. nov. p. 43, Borukaev & Ivshin.

*Paraorlovia procera*, *P. curta* Egorova spp. nov. p. 36, Nekhoroshev.

*Parapilekia* see Cheirurid.

*Pararedlichia* Hupé 1952 [sic] discussed, *Redlichia carinata* & *R. mansuyi* excluded p. 34, Špík (1).

*Pararedlichia* Hupé discussed & may be a subgenus or synonym of *Redlichia* p. 255, Henningsmoen (1).

*Pararedlichia* Hupé a synonym of *Redlichia* p. 255, Henningsmoen (1).

*Parasolenopleura* Westergård 1953 a synonym of *Solenopleurina* [quod vide] p. 200, Šnajdr (2).

*Parasolenopleura* p. 332, Kindle & Whittington.

*Parasolenopleura demanda* n. sp. (Sdzuy MS) p. 735, Lotze (3).

*Parasolenopleura demanda* sp. n. p. 240 pl. ii fig. 5 Cambrian (Middle) Spain (Logrono), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Parataihungshania* Sheng 1941 [? MS or nom. nud.] a synonym of *Omeipsis* p. 197, Sheng.

*Paraulacopleura* see *Aulacopleura*.

*Pardailhania granieri* & *P. hispida* Thoral spp., *P. hispanica* & *P. paschi* n. spp. (Sdzuy MS) p. 731, Lotze (3).

*Pardailhania hispanica* sp. n. for *Sao* h. R. & E. Richter 1929 nom. nud. p. 241 pl. ii fig. 9, *P. paschi* sp. n. p. 241 pl. ii fig. 1 Cambrian (Middle) Spain (Zaragoza), **Sdzuy** Senckenbergiana leth. 39 3-4 1958.

*Pareuloma* Rasetti 1954 may be a subgenus of *Euloma* [quod vide] p. 270, **Sdzuy** (2).

aff. *Pareuloma* sp. p. 332, **Kindle & Whittington**.

*Parkaspis* sp. p. 226, **Drewes**.

*Pedinocephalus* Ivshin 1956 — *Taenicephalus* ? *peregrinus* Henningsmoen 1957 apparently belongs p. 180, **Henningsmoen** (2).

*Pedinocephalus* *bublichenkoi* gen. et sp. nov., *P. kasachstanensis* sp. nov., *P. bykovae* sp. nov. p. 29, **Ivshin**.

*Pedinocephalus* *bublichenkovi* [sic] Ivsh. pl. xiii fig. 9, **Nikitin**.

*Peishania* *lubrica* Chang p. 334, **HSIANG** in **Egorova & Hsiang**.

*Peishania* ? *semicircularis* sp. n. Cambrian (? Middle) China (Shansi) p. 466 pl. xviii fig. 1, **Kobayashi** J. geol. Soc. Japan 49 No. 591 1942.

*Peltoura* Milne Edwards 1840 placed on Official Index & its emended form *Peltura* [quod vide] validated, **Opinion 499**.

*Peltura* Milne Edwards 1840 — validation of emendation from *Peltoura* & addition to Official List of Generic Names, type *P. scarabaeoides* (Wahlenberg [1821]) added to Official List of Specific Names as is *P. bucklandii* M.E.; *P. praecursor* Westergaard 1909 designated as type of *Protopeltura* [quod vide], **Opinion 499**.

*Peltura bucklandi* Milne Edwards considered valid & recognizable & referred to *Hemiargus* [quod vide] p. 580, **Tripp**.

*Peltura scarabaeoides* (Wahlenberg 1821) — redescription of Poulsen's 1923 growth-series p. 201 ff. pl. xxxviii figs. 1-18 [4, 7, 10, 13 drawings], **Whittington**.

*Pelturinae* Corda 1847 (emended from *Pelturides*) placed on Official List of Family-Group Names, **Opinion 499**.

*Pentagnostus anabarensis* Lerm. p. 668, **Suvorova & Petropavlovsky**.

*Perimetopus arenosus* p. 528, **Shaw** (2).

*Periomma typicalis*, *P. gaspensis* p. 531, **Shaw** (2).

*Perischoclonus capitalis* Raymond p. 334, **Kindle & Whittington**.

*Perliproetus* R. et E. Richter 1923 discussed p. 49, *P. catharinæ* sp. n. p. 50 pl. ix figs. 5-6 Devonian (Upper) U.S.S.R. (Urals & Kazakhstan), **Maksimova** Trud. VSEGEI (ns) 3 1955.

*Perneraspis* Prantl 1946 discussed & considered Solenopleuridae subfamilia incerta p. 214, *P. conifrons* (Pompeckj 1895) lectotype selected for *Solenopleura* ? c. P. with synonyms *Perneria lata* [type of *P.*] & *P. l. quadrata* Růžička p. 215 pl. viii figs. 10-14, pl. ix fig. 11 pars, **Šnajdr** (2).

*Peronopsidae* see *Hypagnostinae* subfam. n.

*Peronopsis* Hawle & Corda 1847 discussed with synonyms p. 59, *P. integra* (Beyrich 1845) [excluding record of Lake 1906] neotype chosen and figured p. 60 pl. ii figs. 16-18, pl. iii figs. 1-12, pl. xii figs. 1 pars, 19 pars, *P. cuneifera* (Barrande 1846) lectotype chosen & figured [including several records of *integer* i. a. B. 1852 pl. 49 figs. 1-5, 7, and with many H. & C. spp. of *Diplorrhina* q. v. as synonyms] p. 63 pl. iii figs. 13-37, pl. iv figs. 1-11, pl. xlvi fig. 10 pars, text-fig. 7 (ontogenetic stages), **Šnajdr** (2).

*Peronopsis coreanicus* p. 475, **Kobayashi** (3).

*Peronopsis fallax* (Linrs.), *P. cf. f.*, *P. anabarensis* Lerm. listed fig. 2, **Suvorova & Petropavlovsky**.

*Peronopsis cf. fallax*, *P. sp.* p. 333, **Kindle & Whittington**.

*Peronopsis fallax sallesi* Munier-Chalmas & Bergeron p. 732 ff., *P. f. fallax* Linnarsson & ? *P. f. f.* p. 738, **Lotze** (3).

*Peronopsis fallax* Lin. var. *similis* **Egorova** var. nov. p. 36, **Nekhoroshev**.

*Peronopsis fallax* var. *sinopsis* Ivshin p. 43, *P.* cf. *fallax* var. *minor* (Brögger), *P.* ex gr. *fallax* p. 57, Borukaev & Ivshin.

*Peronopsis* sp. p. 226, Drewes.

*Peronopsis* sp. p. 531, Shaw (2).

*Perrector* R. & E. Richter 1940 with synonym *Resserops* R. & E. R., *P. perrectus* R. & E. R. with synonym *R. resserianus* R. & E. R. and including *Saukianda andalusiae* R. & E. R. *partim* (pl. 1 figs. 17-19) p. 263 pl. xxxvii figs. 1-3, pl. xxxix figs. 1-3, 4 pars B, text-fig. 1 pars, Henningsmoen (1).

*Perunaspis* Přibyl 1949 discussed and associated with Ceratarginae p. 235n, Prantl & Vaněk (1).

*Perunaspis* Přibyl 1949 discussed with synonym *Lobopyge (Nitidulopyge)* Přibyl & Erben 1952 and referred to Ceratarginae p. 26, *P. longispina* P. with synonym *L. (N.) devonica* P. & E. p. 28 text-figs. 1-2, *P. minuta* (Barrande 1846) for *Chevrurus m.* B. with synonym *L. (N.) nitidulus* (B. 1872) [type of *L. (N.)*] p. 29n, *P. sexlobata* (Roemer) so referred p. 30, Prantl & Vaněk (2).

*Petigurus* sp. p. 324, ? *P.* sp., cf. *P.* p. 325, cf. *P.* sp. p. 332, Kindle & Whittington.

*Phacopacea* indet. p. 133, Röder.

*Phacopidae* — Salter'sche Einbettung may not be diagnostic of exuviae p. 236, Schäfer.

*Phacopidae* see *Dalmaniturus* gen. n.

*Phacopidae* ind. p. 12, Solle.

*Phacopidella* Reed 1905 discussed p. 181, *P. (Dienstina) limaria* (Perna 1915) revised description p. 182 pl. xvi figs. 7-13 text-figs. 34-35, *P. (Ductina) ductifrons* R. & E. Richter 1923 p. 186 pl. xvi figs. 1-6, pl. xviii figs. 1-4 [specimens (with displaced cephalic doublures) in inferred moulting positions], Maksimova (1).

*Phacopidella (Ductina)* — Salter'sche Einbettung recorded p. 38, *P. (D.) ductifrons* (R. & E. Richter) stratigraphic range discussed p. 16, Rabien (1).

*Phacopidella (P.) glockeri* (Barr.), *P. (P.) trapeziceps* (B.), *P. (P.) bulliceps* (B.), *P. (Denckmannites) volborthi* (B.) stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Phacopidina apiculata* (Salter) p. 221 ff., *P.* cf. a. p. 222, *P. aff. harnagensis* Bancroft p. 221, Dean.

*Phacops* Emmerich 1839 discussed p. 133, *P. (P.) granulatus* (Münster 1840) p. 136 pl. x figs. 3-11, *P. (P.) wedekindi uralicus* subsp. n. p. 140 pl. xii figs. 1-9, *P. (P.) naliwicki* sp. n. p. 143 pl. xi figs. 1-12, *P. (P.) pronini* sp. n. p. 146 pl. xii figs. 10-12, *P. (Nephronops ?)* sp. p. 149 pl. xii figs. 13a-B, *P. (Cryphops) inserensis* sp. n. p. 151 pl. xiii figs. 9-16, *P. (C.?) latilimbatus* sp. n. p. 153 pl. xiii figs. 17a-B, *P. (Trimeroccephalus)* McCoy 1849 ecdysis discussed p. 208, *P. (T.) mastophthalmus* (Reinh. Richter 1856) p. 155 pl. xiv figs. 1a-6, 2a-6, 3a-6, 4-9, pl. xvii figs. 5, 8, pl. xviii figs. 8-9, *P. (T.) cryptophtalmoides* sp. n. p. 160 pl. xiii figs. 1-3, 4a-6, 5a-6, 6-8, pl. xvii figs. 1-2, pl. xviii figs. 7, 10, 14, *P. (T.) vodorezovi* sp. n. p. 163 pl. xiv figs. 10a-6, 11a-6, 12-15, pl. xvii figs. 7, 9, *P. (T.) lentiginosus* sp. n. p. 166 pl. xvi figs. 14-15, *P. (Dianops)* ecdysis discussed p. 208, *P. (D.) griffithides mugodjaricus* subsp. n. [with occasional traces of eye spots] p. 169 pl. xv figs. 1a-6, 2a-6, 3, 4a-6, 5-8, pl. xvii figs. 4, 6, pl. xviii fig. 5, *P. (D.) aktiubensis* sp. n. including *T.* sp. indet. Perna 1915 p. 172 pl. xv figs. 15a-6, 16a-6, 17a-6, 18, pl. xvii fig. 3, pl. xviii figs. 6, 13, text-fig. 31, *P. (D.) pernai* sp. n. including *T. anophthalmus* of P. 1915 p. 175 pl. xv figs. 9-14, *P. (D.) aff. griffithides* R. & E. Richter p. 178 pl. xvi figs. 17a-6, *P. (D.)* sp. p. 179 pl. xvi figs. 16a-6, pl. xviii fig. 12 Devonian (Upper) U.S.S.R. (Urals & Kazakhstan), Maksimova Trud. VSEGEI (ns) 3 1955.

*Phacops (Cryphops) & P. (Nephronops)* — Salter'sche Einbettung recorded p. 38, Rabien (1).

*Phacops (Cryphops) acuticeps* (Käyser), *P. (C.) a.* ?, *P.* sp. p. 170, *P. (Dianops)* sp. pp. 178, 181, Rabien (2).

*Phacops (Chasmops) bohemicus*  
Želízko a synonym of *Eudolatites angelini* p. 281, Röhlich (2).

*Phacops breviceps* Barr. p. 366,  
Chlupáč (7).

*Phacops fecundus communis* Barr.  
stratigraphic range pl. xi, Prantl &  
Vaněk (1).

*Phacops (P.) fecundus degener*  
Barrande p. 29 pl. iii figs. 1, 1a-b,  
text-pl. figs. 1, 1a-b, *P. (P.) turco*  
R. & E. Richter p. 30 pl. iii figs. 2,  
2a-b, text-pl. figs. 2, 2a-b, *P. (P.)*  
*schlotheimi schlotheimi* Brönn p. 31  
pl. iii figs. 3, 3a-b, text-pl. figs. 3,  
3a-b, *P. (P.) aff. angusticeps* Giebel  
p. 33 pl. iii figs. 4, 4a-b, text-pl.  
figs. 4, 4a-b, *P. (P.) hassiacus*  
Hermann & *P. (P.) zinkeni* Kayser  
may be synonyms of *angusticeps*  
p. 34, *P. sp.* (hypostomes) p. 34,  
Cavet & Pillet.

*Phacops fecundus major* (Barr.)  
pl. xxxiii, Svoboda & Prantl.

*Phacops sp.* (cf. *ferdinandi* Kayser?)  
p. 66 ff., Rösler (2).

*Phacops granulatus* (Münster 1840)  
with synonym *P. posidoniae* Gürich  
1896 p. 125 pl. i fig. 1 text-figs. 2  
(1a-b, 2a-b), *P. wedekindi wedekindi*  
R. & E. Richter 1926 p. 127 pl. i  
figs. 2a-b, *P. sp.* p. 138 pl. iii fig. 4  
text-figs. 7a-c, Osmólska.

*Phacops cf. incertus* Deslongchamps  
p. 37, Leckwijck et al.

*Phacops latifrons* Brönn pl. xi  
fig. 2, Almela & Sanz.

*Phacops cf. latifrons* Brönn p. 119,  
Paškevičius (3).

*Phacops aff. logani* Hall p. 912,  
Nagibina et al.

*Phacops cf. orestes* Billings p. 142  
pl. xxix fig. 6, Curtis.

*Phacops quadrilineatus* Angelin  
1878 p. 130 pl. ix figs. 1a-6, *P.*  
*elegans* Schmidt 1881 p. 130 pl. ix  
fig. 2, Maksimova (2).

*Phacops quadrilineatus* Ang. p. 41  
pl. vi figs. 17-18, *P. quadrilineatus*  
var. *khatangensis* var. n. p. 40 pl. vi  
figs. 11, 13, *P. sp.* for *P. aff. shanensis*  
of Chernysheva 1951 p. 42 Silurian  
U.S.S.R., Weber Upper Silurian  
trilobites of the U.S.S.R. 1951.

*Phacops sternbergi* H. & C., *P. sp.*,  
*P. (Reedops) cf. cephalotes* Sternberg  
p. 376, Horný (4).

*Phacops n. sp.* [undescr.] p. 235,  
Chlupáč (4).

*Phacops sp.* p. 20 pl. ii figs. 1-3,  
Chernysheva (1).

*Phacops sp.* pp. 35, 76, Pauly.

*Phacops sp.* p. 337, Tomczykowa.

*Phaetonellus dentatulus* Novák type  
of *Lodenicia* gen. n. p. 234, Prantl &  
Vaněk (1).

*Phalacroma* Corda 1847 emend.  
discussed (type taken as *Battus nudus* Beyr.) with synonyms *Leiagnostus* Jaekel, *Gallagnostus* & *Grandagnostus* Howell p. 42, list of referred spp. p. 46, *P. maja* sp. n. p. 50 pl. iv figs. 9-12, *P. antiqua* [so spelt at descr., but elsewhere consistently *antiqua*] sp. n. p. 51 pl. iv figs. 7-8, *P. longifrons* (Lermon-tova) for *Grandagnostus* l. L. p. 52 pl. iv figs. 13-15, *P. glandiforme* (Ang.) [excluding record of Westergård 1946 *partim* (pl. 15 figs. 13a-d) to *P. longifrons*] p. 53 pl. iv figs. 1-6, *P. laevis* sp. n. p. 56 pl. iv figs. 16-18, *P. calva* sp. n. p. 58 pl. iv fig. 19 Cambrian (Middle) U.S.S.R. (Yakutia), *Pokrovskaya* Trav. géol. Inst. U.R.S.S. No. 16 1958.

*Phalacroma* Hawle & Corda 1847  
discussed with synonym *Platagnostus* Howell p. 72, *P. bibullatum* (Barrande 1846) lectotype chosen and figured with synonyms *quadrinotatum*, *ellipticum* & *ovatum* H. & C. p. 74 pl. iv figs. 25-32 text-fig. 8; *P. emarginatum*, *carinatum*, *scutiforme* & *gibbosum* H. & C. all synonyms of *Phalagnostus nudus* p. 78, Šnajdr (2).

*Phalacroma antiqua* Pokr. MS  
p. 87, Chernysheva (4).

*Phalacroma* cf. *glandiforme* (Angelin) p. 57, Borukaev & Ivshin.

*Phalacroma* sp. p. 907, Dvortsova.

*Phalacrominae* — *Skryjagnostus* Šnajdr referred p. 72, Šnajdr (2).

*Phalagnostus* Howell 1955 discussed p. 76, *P. nudus* (Beyrich 1845) neotype chosen and figured [with synonyms *Phalacroma emarginatum*, *carinatum*, *scutiforme*, *gibbosum*

Hawle & Corda, *Paradoxides rosae* Růžička 1944 partim, but excluding record of *nudus* by Illing 1917] p. 78 pl. v figs. 1-24 text-figs. 9-11, *P. prantti* Šnajdr 1957 holotype refigured p. 82 pl. vi figs. 1-3, 6-9, II, text-fig. 12, *P. eskriggei* (Hicks), *P. scanicus* (Tullberg), *P. resectus* (Grönwall), *P. marginatus* (Brögger), *P. glandiformis* (Angelin) all so referred p. 78, Šnajdr (2).

*Phanoptes pulcher* Hawle & Corda 1847 (lectotype selected and figured) a synonym of *Eccaparadoxides pusillus* p. 116, Šnajdr (2).

*Pharostoma pulchra* (Barr.) p. 73, Horný (1).

*Pharostoma* cf. *pulchra* (Barr.) p. 335 pl. xv fig. 5, Šuf.

*Pharostomina* Sdzuy 1955 — *Eulomina* Růžička compared p. 267, Sdzuy (2).

*Phillibole (Liobole) glabra* cf. *glabra* (Holz.) p. 269 pl. i figs. 4-5, Chlupáč (5).

*Phillibole (Phillibole)* sp. p. 286 pl. iii figs. 1-2, *P. (Liobole) glabra* (Holzapfel 1889) p. 285 pl. i figs. 4-5, 7-8, pl. ii figs. 8-9, Chlupáč (8).

*Phillipsia* Portlock differences from *Linguaphillipsia* discussed p. 883, "*P.*" *proxima* Mitchell 1918 pygidium is indistinguishable from that of *L. divergens* sp. n. p. 886, "*P.*" *elongata* M. discussed, Čvancara.

*Phillipsia derbiensis* (Martin), *P. eichwaldi* (Fischer), *P. cf. gemmulifera* (Phillips), *P. sp.* p. 898, Wolfenden.

*Phillipsia pulchella* Gemm. p. 162, Montanaro Gallitelli.

*Phillipsia truncatula* auct. recorded p. 231; *P. gemmulifera* record of Paul 1937 may be *Piltonia fryi* sp. n. p. 232, Goldring.

*Phillipsia* sp. p. 109, Nekhoroshev.

*Phillipsinella* see Gen. indet. II.

*Phlysacium* Hawle & Corda 1847 a synonym of *Hydrocephalus* p. 129, *P. paradoxum* H. & C. a synonym of *H. carens* p. 130, Šnajdr (2).

*Phoidagnostus* Whitehouse 1936 emend. discussed p. 37, *P. bituberculatus* (Ang.) p. 39 pl. iii figs. 13-14, *P. angustiformis* sp. n. p. 41 pl. iii fig. 15 Cambrian (Middle) U.S.S.R. (Yakutia), *Pokrovskaya* Trav. géol. Inst. U.R.S.S. No. 16 1958.

*Phoidagnostus bituberculatus* (Angelín) p. 43, Borukaev & Ivshin.

? *Phoreotropis* sp. p. 323, Kindle & Whittington.

*Phylacterus* sp. p. 329, ? *P.* p. 330, Kindle & Whittington.

*Pichunia* gen. n. [no family or type assigned] p. 100, *P. indomita* sp. n. p. 101 pl. figs. 6a-b, *P. quadricostata* [quadrispinata on pl. expl.] sp. n. p. 101 pl. fig. 7 Cambrian (Middle/Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Pichynturia* [Pichinturia on pl. expl.] gen. n. [no family assigned], *P. oscelata* sp. n. p. 102 pl. fig. 8 Cambrian (Middle/Upper) Argentina (Mendoza), Rusconi Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Piltonia fryi* sp. n. p. 242 pl. xliii figs. 17-20 Carboniferous (Lower) S.W. England & Belgium; *Phillipsia gemmulifera* record of Paul 1937 may be *P. fryi* p. 232, Goldring Palaeontology 1 3 1958.

*Placoparia zippei* (Boeck) description of Bohemian material (by H. B. Whittington) with synonyms *P. camadiensis* Hicks & *Calymene hopkinsoni* H. p. 104 pl. xiv figs. 3 pars, 6-10 text-figs. 6a-h, *P. sp.* p. 108 pl. xiv fig. 11, Whittard.

*Placoparia* Whittard 1940 not a synonym of *Eccoptochile* p. 112, *P. sedgwicki* (McCoy) [eyes described] excluding record of Lake 1907 (nearer to *E. clavigera*) p. 113 pl. xv figs. 6-13, Postlethwaite & Goodchild 1886 pl. 8 fig. 17 may belong to *P. s.* p. 115, Whittard.

*Planiscutellum planum* (Hawle & Corda) lectotype figured pl. i fig. 7, Šnajdr (3).

*Planiscutellum planum* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Platylichas* list of referred spp. p. 576, *P. laxatus* (McCoy) with synonyms (as well as those of Warburg 1939) *Lichas pumila* M. & *L. nodulosus* Salter [latter may prove to be subsp. of *P. l.*] and including hypostome ascribed to *L. bulbiceps* by Reed 1896 (pl. 21 fig. 9) pp. 578, 580 pl. lxxxv figs. 3-5, *P. crescenticus* (R.) with synonym *L. (P.) vicinus* R. p. 579, *P. thraivenensis* (R.) with synonym *L. (Metopolichas ?) congruens* R. p. 579 pl. lxxxv figs. 7-8 [where sp. is called *P. congruens*], *P. halli* (Foerste) with possible synonym *Trimerolichas warburgae* Phleger [holotype refigured pl. lxxxv fig. 6] p. 580, *P. grayi* (Fletcher) with synonyms *L. barrandei* F., *L. rotundifrons* Angelin [holotype figured] & *L. bulbiceps* Salter p. 580 pl. lxxxv figs. 9-11, Tripp.

*Platylichas* see *Lichas*.

*Platylichas laxatus* (McCoy) p. 224 ff. pl. xxvi figs. 12-13, Dean.

*Platymetopus* sp. of *P. minganensis* (Billings) p. 84, Kay.

*Platyscutellum* [misspelt *Plytyscutellum* on p. 183] gen. n. [Scutellidae] p. 180 (183) for type *Bronteus formosus* Barrande Devonian (Lower) Czechoslovakia, *P. formosum* f. pl. i fig. 3, *P. spiniferum* (B.) pl. i fig. 1, *P. kutorgai* (B.) pl. ii fig. 20, *P. lochkovense* sp. nov. [nom. nud.] p. 181, *B. magus* [sic] B. & *B. viator* B. also referred to *P. p. 180*, Šnajdr Věstn. Úst. úst. geol. 33 3 1958.

cf. *Plesiomegalaspis graffi* Thoral p. 15, Leckwijck et al.

*Plesiomegalaspis (Saouraspis) menchikoffi* Thoral [nom. nud.] p. 192, Poueyto.

*Plesioparabolina mendozana* Rusconi referred to *Kistocare* [quod vide] p. 14, V. Poulsen.

*Plethometopus* p. 841, Sando.

*Plethometopus longispinus* sp. n. (may have proparian sutures) p. 214 text-fig. 3 [where called *P. spiniferus*] Cambrian (Upper) S. Korea, Kobayashi Trans. palaeont. Soc. Japan (ns) No. 30 1958.

*Plethometopus portlandensis* sp. n. p. 54 pl. iv fig. 5, *P. longus* sp. n. p. 54 pl. iv fig. 6, *P. blairtownensis brevis* subsp. n. p. 55 pl. iv fig. 7 Cambrian (Upper) U.S.A. (Pennsylvania), Howell Bull. Wagner Inst. Sci. Philad. 30 4 1955.

*Plethometopus* sp. p. 323 ff., Kindle & Whittington.

*Pleuroctenium* Hawle & Corda 1847 discussed p. 55, *P. granulatum* (Barrande 1846) with synonym *P. minutum* H. & C. (both lectotypes chosen and figured) p. 56 pl. ii figs. 5, 7-15, Šnajdr (2).

*Plicatolina kindlei* p. 551, Shaw (2).

*Pliomera* Angelin 1854 discussed p. 93, *P. iliensis* Koroleva MS sp. n. p. 94 pl. x figs. 7-13 Ordovician (Middle & Upper) U.S.S.R. (Kazakhstan), *P. anderkenensis* Web. p. 113; *P. sulcifrons* Weber 1948 referred to *Pliomerina* p. 100, *P. s. W.* partim (pl. 10 fig. 16) & *P. cf. pseudoarticulata* of W. 1948 to *Pliomerina dulanensis* sp. n. p. 102, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Pliomera ? njuensis* sp. n. p. 127 pl. vii figs. 9, 10 (drawing), *P. ? aff. njuensis* p. 128 pl. vii fig. 7 Ordovician (Lower) U.S.S.R. (Siberia), Maksimova Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Pliomerid* p. 324 ff., Kindle & Whittington.

*Pliomeridae* Öpik 1937 discussed p. 90, Chugaeva.

*Pliomerina* gen. nov. [Chugaeva 1956] discussed p. 99, *P. sulcifrons* (Web.) for *Pliomera s. W.* 1948 restr. (pl. 10 fig. 17) p. 100 pl. x figs. 14-16, *P. dulanensis* sp. n. [nondescr. 1956] for *Pliomera s. W.* 1948 partim (pl. 10 fig. 16) & *P. cf. pseudoarticulata* of W. 1948 Ordovician (Upper) p. 102 pl. xi figs. 1-4, *P. unda* (Koroleva in coll.) sp. n. Ordovician (Middle) U.S.S.R. (Kazakhstan) p. 104 pl. x fig. 17, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Pliomeroides* sp. p. 569 pl. lxxxiv figs. 5, 7 [see also Undetermined genus and species (pygidium)], Ross (1).

*Pliomerops planus* (Web.) [sic] p. 97  
pl. x figs. 1-6, Chugaeva.

*Pliomerops weberi* sp. n. p. 128  
pl. vii fig. 11, *P. unguis* sp. n. p. 129  
pl. vii figs. 5-6, *P.* sp. p. 129 pl. vii  
fig. 8 Ordovician (Lower) U.S.S.R.  
(Siberia), Maksimova Field Atlas of  
the Ordovician and Silurian fauna of  
the Siberian Platform 1955.

*Polytomurus formosus* (Barr.) p.  
282, Röhlich (2).

*Poroscutellum* gen. n. [Scutelluidae]  
p. 181 (183) for type *Bronteus*  
*porosus* Barrande pl. ii figs. 16-17  
Devonian (Lower) Czechoslovakia,  
*B. acupunctatus*, *B. expectans*, *B.*  
*indocilis*, *B. infastus* B. spp. also  
referred, Šnajdr Věstn. Úst. úst.  
geol. 33 3 1958.

*Praedechenella* Maksimova 1952  
[not seen] may be an independent  
genus p. 59n, Maksimova (1).

*Prantlia longula* (Hawle & Corda)  
stratigraphic range pl. xi, Prantl &  
Vaněk (1).

*Presbynileus* sp. p. 326, Kindle &  
Whittington.

*Pricyclopype* see *Cyclopype*.

*Primaspis caractaci* (Salter) p.  
223 ff., Dean.

*Primaspis tricornis* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Prionopeltiinae* see *Lodenicia* gen.  
n.

*Prionopeltinae* — *Perunaspis*  
Přibyl removed to *Ceratarginae*,  
Prantl & Vaněk (2).

*Prionopeltis striatus striatus* (Barr.),  
*P. s. praecedens* Bouč., *P. archiaci*  
(B.) stratigraphic ranges pl. xi,  
Prantl & Vaněk (1).

*Proagnostus* see *Homagnostus*.

*Proampyx* Frech an independent  
genus, not a synonym of *Agraulos*  
p. 454, Sdžuy (4).

*Proasaphiscus* recorded p. 334,  
HSIANG in Egorova & Hsiang.

*Probolium* Oehlert 1889 (non  
Costa 1853) renamed *Neoprobolium*  
nom. n. p. 301, Struve (4).

*Proboloides* Clarke 1913 (non Valle  
1893 nec Morley 1903) renamed  
*Paracalmonia* nom. n. p. 301, Struve  
(4).

*Probowmania ligea* (Walcott) var.  
*quadrata* var. n. Cambrian (Middle)  
China (Shansi) p. 465 pl. xviii  
figs. 4-5, Kobayashi J. geol. Soc.  
Japan 49 No. 591 1942.

*Proceratopyge* from Anhwei &  
Chekiang p. 139, Lu.

*Proceratopyge asiatica* sp. nov.  
p. 29, Ivshin.

*Proceratopyge asiatica* Ivsh. pl. xiii  
figs. 11-12, Nikitin.

*Proceratopyge nathorsti* Westergård  
1922 p. 186 pl. vii figs. 2-3, Hennings-  
moen (2).

*Prochuangia* sp. p. 336, Ho in  
Egorova & Hsiang.

*Prodrepanura* Sun [nom. nud.]  
*minor* S. [nom. nud.] p. 482, GRABAU  
19 [omitted Z. R. 84 11].

*Proetidae* (dwarfed) p. 216 pl. xviii  
fig. 11, Maksimova (1).

Proetids recorded pp. 121, 123,  
Osmólska.

*Proetinae* Přibyl 1946 [sic] discussed,  
*Chaunoproetus* referred pp.  
48-49, Maksimova (1).

*Proetus* (*Longiproetus*) subgen. n.  
p. 23 for type *P. tenuimargo* R.  
Richter 1909, *P. (L.)* cf. *t.* p. 25  
pl. iii figs. 6, 6a, text-fig. 1B, *P. (L.)*  
*chamaeleo* R. & E. R. 1918 p. 24  
pl. iii figs. 5, 5a, text-fig. 1A; following  
spp. also referred to *P. (L.)* p. 24  
— *aplanatus* Pillet, *conspersus* Ange-  
lin, *cultrijugatus* & *dohmi* R. & E. R.,  
*glandiferus* & *hawlei* Novák, *pseudo-*  
*tenuis* & *rogeri* P. Devonian (Lower &  
Middle) Europe, Cavet & Pillet  
Bull. Soc. géol. Fr. (6) 8 1 1958.

*Proetus asaphoides* sp. n. p. 140  
pl. xxix fig. 2, *P.* sp. p. 141 pl. xxix  
figs. 3a-b Silurian (Lower) Britain  
(W. England), Curtis Palaeontology  
1 2 1958.

*Proetus crassimarginatus* of White-  
aves 1898 probably belongs to *P.*  
*canadensis* Stumm p. 110n, Stumm &  
Wright.

*Proetus (Decoroproetus) decorus*  
Barr. p. 337 pl. ii fig. 14, Tomczykowa.

*Proetus (Decoroproetus) decorus*  
*decorus* Barrande 1846 lectotype  
selected p. 230 pl. i fig. 1, pl. ii fig. 1,  
*P. (D.) decorus quirinus* subsp. n.  
p. 229 pl. i figs. 2-4, *P. (Cornu-*  
*proetus) reussi* Hawle & Corda 1847  
nov. emend. lectotype selected and  
figured p. 230 pl. i figs. 5-6, *P. (C.)*  
*vertumnus* sp. n. p. 232 pl. ii figs. 2-3  
Silurian (Middle & Upper) Bohemia,  
*P. (P.) mořinensis* Přibyl, *P. (P.)*  
*nasutus* Novák MS, *P. (C.) venustus*  
B., *P. (C.) intermedius* B., *P.*  
*(Unguliproetus) ryckholti* B. stratigraphic  
ranges pl. xi, Prantl & Vaněk  
Sborn. Úst. úst. geol. 24 [Pal.] 1958.

*Proetus enodus* sp. n. p. 124 pl. ix  
figs. 6-8 Silurian (Lower) U.S.S.R.  
(E. Siberia), Maksimova Field Atlas  
of the Ordovician and Silurian  
fauna of the Siberian Platform 1955.

*Proetus (Lepidoproetus) lepidus*  
Barrande p. 375, *P. (L.)* cf. l. p. 376,  
Horný (4).

*Proetus protuberans* Hall p. 35,  
Huffman et al.

*Proetus waigatschensis* Tschern. et  
Yak. p. 13 pl. iii figs. 14a-6, 20a-6,  
*P. tolli* sp. n. p. 14 pl. iii figs. 7, 9,  
12-13, *P. circumscriptus* sp. n.  
p. 15 pl. iii figs. 4-5, *P. markovskiyi*  
sp. n. p. 15 pl. iii figs. 1-2, *P. romanovskiyi* Web. p. 16 pl. iii figs. 3, 15,  
*P. conspersus* Ang. p. 16 pl. iii fig. 16,  
*P. concinnus* Dalm. p. 17, *P.* sp.  
p. 17 pl. iii fig. 8 Silurian U.S.S.R.,  
Weber Upper Silurian trilobites of  
the U.S.S.R. 1951.

*Proetus* sp. p. 444, Hong.

*Proetus* (s. l.) sp. p. 223, Dean.

*Proetus* ? sp. p. 26, Leckwijck et al.

*Proetus* sp. nov. [undescr.] p. 138  
(5), Rosenstein (1).

*Prohedinia* Lermontova & Chernysheva  
gen. n. [Olenidae] p. 68 for  
type *P. attenuata* L. & C. sp. n.  
p. 69 pl. i figs. 9-12 Cambrian (Middle)  
U.S.S.R. (E. Siberia), Chernysheva  
Trud. VSEGEI 1 1950.

*Prosaukia angulata* (Mansuy) p.  
102, Kobayashi (1).

*Prosaukia* sp. p. 336, Ho in  
Egorova & Hsiang.

*Protaldonaia* n. subg. see *Aldonaia*.

*Proteuloma* subgen. n. see *Euloma*.

*Protillaenus marginatus* see  
*Maryvillia arion*.

Protolenidae R. & E. Richter  
classified into Termierellinae, Proto-  
leninae, Myopsoleninae, Bigotininae  
p. 260, Henningsmoen (1).

Protoleninae R. & E. Richter  
taken to include *Protolenus* &  
*Thoralaspis* p. 260, Henningsmoen  
(1).

? *Protolenus hupeiensis* sp. n.  
p. 129 (144) pl. ii figs. 26-27 Cambrian  
(Lower) China (Hupeh), Chang Acta  
palaeont. sinica 1 3 1953.

*Protopeltura* Brögger 1882 placed on  
Official List of Generic Names, type-  
species designated as *Peltura prae-*  
*cursor* Westergaard 1909 which is  
placed on Official List of Specific  
Names, Opinion 499.

*Protopeltura asperoensis* Rusconi  
generic assignment and Middle Cam-  
brian age reaffirmed p. 125, Rusconi  
(4).

*Protopliomerops primigenus* (Ang.)  
p. 209 text-figs. 119, 120 (reconstr.),  
Janusson (2).

*Protopliomerops* cf. *superciliosa*  
Ross p. 13, Leech.

*Protopresbynileus* sp., cf. *P.* sp.  
p. 324 ff., Kindle & Whittington.

*Protoscutellum simulans* (Barr.)  
stratigraphic range pl. xi, Prantl &  
Vaněk (1).

*Prototypus* ? *bohemicus* Pompeckj  
1895 a synonym of *Ellipsocephalus*  
*vetustus* P. p. 93, Šnajdr (2).

*Prototypus hitchcocki* p. 531, Shaw  
(2).

*Prozacanthoides* sp. p. 531, Shaw  
(2).

*Pruvestina farta* n. sp. (Sdzuy  
MS) p. 730, Lotze (3).

cf. *Psalakilus* [sic] sp. p. 325,  
? *P.* sp. p. 332, Kindle & Whittington.

*Pseudagnostus* see *Pseudoagnostus*.

*Pseudagnostus bilobus*, *P. araneavelatus* p. 551-2, Shaw (2).

*Pseudagnostus* cf. *chinensis* (Dames) from Manchuria p. 138, Lu.

*Pseudagnostus cyclopygeiformis* (Sun), *P. sp. nov.* [undescr.] p. 102, Kobayashi (1).

*Pseudagnostus cyclopygiformis* (Sun), *P. chinensis* (Dames) p. 466, Chien.

*Pseudagnostus* cf. *gyps* p. 322, *P. sp.* p. 324, cf. *P. sp.* p. 332, Kindle & Whittington.

*Pseudagnostus huangluoensis* new species p. 75 presumably error for *Pseudagnostus jeholensis* sp. n., KOBAYASHI 41 [omitted Z. R. 90 11].

*Pseudagnostus primus* p. 475, Kobayashi (3).

*Pseudagnostus pseudocyclopyge* sp. nov., *P. angustilobus* sp. nov. p. 29, Ivshin.

*Pseudagnostus pseudocyclopyge* Ivsh. pl. xiii fig. 1, *P. angustilobus* I. pl. xiii fig. 2, *P. brevispinus* (Lerm.) pl. xiv figs. 1-2, *P. sp.* pl. xiv fig. 3 pars r, *P. simplex* (L.) pl. xiv figs. 4-5, 13 pars a, *P. absoletus* [sic] (L.) pl. xiv fig. 13 pars 6, Nikitin.

*Pseudagnostus* sp. p. 226, Drewes.

*Pseudagnostus* ? sp. p. 336, Ho in Egorova & Hsiang.

*Pseudagnostus* ? sp. p. 36, Nekhoroshev.

*Pseudartabas* see *Lichas*.

*Pseudoagnostus* [sic] cf. *canadensis* (Billings) p. 12, Leech.

*Pseudoasaphus* cf. *tecticaudatus* p. 9, Balashova (3).

*Pseudobasilicus* Reed 1930 a synonym of *Ogygites* p. 38, Chugaeva.

*Pseudobasilicus* see *Asaphus*.

*Pseudobasilicus nobilis* (Barrande 1846) p. 10, *P. nobilis caudiculatus* (Born 1916) differences from *P. n.* may be sexual p. 11 pls. iv, v, Thadeu.

*Pseudocheirurus* see *Cheirurus*.

*Pseudocryphaeus* Pillet 1953 [recte 1954] discussed p. 15, *P. michelini michelini* (Rouault) 1851 emend. p. 16 pl. i fig. 3, pl. ii fig. 5, text-pl. figs. 4, 4a, *P. michelini barroisi* subsp. n. for *Cryphaeus pectinatus* of Barrois 1889 [including i. a. records of *Dalmanites sublaciniata* by de Verneuil 1855 partim, of *pectinatus* by Bureau 1900, Pichard 1928, Renaud 1942, and ? of aff. *pectinatus* by Rodriguez-Mellado et Thadeu 1947] p. 16 pl. ii fig. 4, text-pl. figs. 5, 5a Devonian (Lower) France (Armorican massif); following spp. also referred to *P. — ebbae* R. & E. Richter, *prorotundifrons* R. & E. R., *rotundifrons* Emmrich, *sublaciniatus* de Verneuil, possibly *mesocristata* Le Maître pp. 15-16, Pillet Bull. Soc. géol. Fr. (6) 8 1 1958.

*Pseudocybele* ? sp. for *Amphion* cf. *A. salteri* of Ulrich 1909 p. 851 pl. ii fig. 36, Sando.

*Pseudogygites* recorded p. 1643, Sinclair.

*Pseudohystricurus* sp. p. 323, Kindle & Whittington.

*Pseudokainella* ? aff. *P. ? armatus* Hintze p. 847 pl. ii figs. 31-32, Sando.

*Pseudolenus weggeni*, *P. glaber* n. spp. (Sdzuy MS) p. 741, Lotze (3).

*Pseudomera* sp. p. 2339 ff., Webb.

cf. *Pseudopetigurus* ? *globulus* Sdzuy 1955 p. 262 pl. i figs. 16-18, pl. iii fig. 1, Sdzuy (2).

*Pseudopalacroma* gen. n. [Lejopyginae] for type *P. crebra* sp. n. p. 79 pl. iii figs. 4-6 Cambrian (Middle) U.S.S.R. (Yakutia), Pokrovskaya Trav. géol. Inst. U.R.S.S. No. 16 1958.

*Pseudophillipsia elegans* Gemm. p. 162, Montanaro Gallitelli.

*Pseudosaukianda* Hupé considered a multisegmented Bathyuriscid (not a Redchiid) p. 35, Öpik (1).

*Pseudosaukianda* Hupé a synonym of *Saukianda* p. 257-8, *P. lata* H. a synonym of *S. termieri* (Neltner & Poctey), Henningsmoen (1).

*Pseudosphaerexochus* Schmidt 1881 discussed p. 175, *P. hemicranium* (Kutorga 1854) including *Sphaerexochus conformis* of Nieszkowski 1857 (refigured) p. 176 pl. iii figs. 2-5, *P. orvikui* sp. n. with 11 thoracic segments Ordovician (Middle) Estonia p. 177 pl. ii figs. 1-5, pl. iii fig. 1, *Männil* Geol. Inst. Uurimus 3 1958.

*Pseudosphaerexochus* aff. *panschi* Schmidt p. 113, Chugaeva.

*Pseudosphaerexochus* sp. p. 84, Kay.

*Pseudosphaerexochus* sp. p. 46, Nekhoroshev.

*Pseudosphaerexochus* sp. indet. p. 225, Dean.

*Psilaspis* Endo & Resser a synonym of *Anomocarella*, its type *P. manchuriensis* E. & R. being a synonym of *A. tenuus* (Walcott) p. 204, Kobayashi (4).

*Psilaspis manchuriensis* Endo et Resser p. 334, HSIANG in Egorova & Hsiang.

*Psilocephalina hsui* sp. n. p. 190 pl. ii figs. 1a-e (Yunnan), *P. hsui* var. *tungtzuensis* var. n. p. 190 pl. ii figs. 2a-f (Kweichow & Szechuan), *P. kuoi* sp. n. p. 191 pl. i figs. 4a-h China (Yunnan) Ordovician (Lower), Sheng Acta palaeont. sinica 6 2 1958.

*Pterocephalia* cf. *P. occidens* Walcott p. 226, Drewes.

*Pterocephalina* ? sp. p. 12, Leech.

*Pterygometopinae* discussed and three genera recognised—*Pterygometopus* s. str., *Estoniops* gen. n., *Achatella* [quae vide] p. 387, Männil (2).

*Pterygometopinae* see *Carinopyge* gen. n.

*Pterygometopus* Schmidt 1881 s. str. discussed and taken to include *sclerops* Dalman and *trigonocephalus* S. [see also *Estoniops* gen. n. and *Achatella*] pp. 385 (387), Männil (2).

*Ptychagnostus* cf. *gibbus*, *P. cf. praecurrents* p. 333, Kindle & Whittington.

*Ptychagnostus* (*Triplagnostus*) *vinicensis* Šnajdr 1957 holotype refigured p. 71 pl. iv figs. 19-24, Šnajdr (2).

*Ptychagnostus* (*Triplagnostus*) sp. p. 226, Drewes.

*Ptychaspis* recorded p. 1723, Berg & Ross.

*Ptychocheilus* cf. *decoratus* Hol. p. 142, Horný & Chlupáč.

*Ptychoparella teucer* p. 528, "P." sp. p. 531, Shaw (2).

*Ptychoparia* Hawle & Corda 1847 discussed with synonyms *Ptychoparioides* Růžička and *Agraulopsis* R. p. 183, *P. striata* (Emmrich 1839) neotype selected and figured [with synonyms *Trilobites decipiens* Barrande 1846, *Conocoryphe mutica* H. & C. restr. (lectotype chosen), *P. pulchra* H. & C., *P. s. tenuis*, *Solenopleura torifrons*, *S. ? sp.* Pompeckj 1895, *P. lobifera*, *P. gracilis*, *Ptychoparioides nobilis*, *Agraulopsis resseri* R. 1939, but excluding records of *striata* by Wurm 1925 (twice)] p. 185 pl. xxxviii figs. 16-20, pl. xxxix figs. 1-7, pl. xl figs. 1-7, 17, text-figs. 40-41 (reconstrs.); *P. marginata* P. 1895 a synonym of *Conocephalina emmrichii* p. 192, Šnajdr (2).

"*Ptychoparia*" recorded p. 333, P. provisionally recorded p. 335, Egorova & Hsiang.

*Ptychoparia* cfr. *acilis* Walcott p. 100, Kobayashi (1).

*Ptychoparia tchabdensis* Tchern. p. 36, Nekhoroshev.

*Ptychoparia truncata* & *P. azpeitiiae* Sampelayo 1935 referred to *Solenopleurospis* p. 242, Sdzuy (1).

*Ptychoparia* ? *urania* Walcott 1890 type of *Burnetiella* gen. n. p. 247, Lochman.

*Ptychoparia* sp. p. 475, Kobayashi (3).

*Ptychoparioides* Růžička 1939 a synonym of *Ptychoparia* [quod vide] p. 184, Šnajdr (2).

*Punctularia* sp. p. 329, Kindle & Whittington.

*Quadraticephalus teres* Resser & Endo p. 102, Kobayashi (1).

*Radiaspis ? formosa* sp. n. Silurian (Middle) Bohemia p. 239 pl. iii fig. 5, *R. radiata* (Goldfuss) pl. iii fig. 6, Prantl & Vaněk Sborn. Úst. úst. geol. 24 [Pal.] 1958.

*Radiolichas* Reed — *Ancyropyge* Clarke may be related p. 585, Erben (2).

*Raduginella pura* Egorova gen. et sp. nov. p. 36, Nekhoroshev.

Raphiophorid n. gen. [undescr.] p. 325, Kindle & Whittington.

*Raphiophorus* Angelin 1854 discussed, *R. usunensis* sp. n. p. 19 pl. i figs. 4-5 Ordovician (Middle) U.S.S.R. (Kazakhstan); *R. ? ovulum* Weber including *R. aff. volborthi* of W. 1948 referred to *Bulbaspis* p. 26, Chugaeva Trud. geol. Inst. S.S.S.R. 9 1958.

*Raphiophorus edgelli* (Reed) p. 224 ff., Dean.

*Raphiophorus rouaulti* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Raphiophorus rouaulti* (Barr.) p. 337, Tomeczykowa.

*Rasettia cruceana* (Rusc.) p. 90, Rusconi (2).

*Rasettia* sp. p. 323 ff., Kindle & Whittington.

*Rawops* Hupé a synonym of *Perrector* p. 257, Henningsmoen (1).

*Raymondarges reporyjensis* Phleger a synonym of *Dicranopeltis scabra propinqua* p. 248, Prantl & Vaněk (1).

*Raymondaspis* sp. p. 326, Kindle & Whittington.

*Reacalymene pusulosa* Shirley p. 218, *R. cf. p.* p. 220, *R. sp. nov.* [undescr.] p. 221, Dean.

*Realaspis strenoides* n. g. n. sp. (Sdzuy MS) p. 741, Lotze (3).

*Redlichia* Cossman 1902 discussed, *R. chinensis* Walcott p. 125 (140) pl. iii fig. 15 [drawing], pl. iv fig. 9, *R. saitoi* Lu [not seen] for *R. cf. walcotti* of Saito 1934 p. 126 (140) pl. iv fig. 8, *R. nobilis* Walcott p. 126

(141) pl. iii fig. 13 [drawing], pl. iv figs. 1-4, *R. cylindrica* sp. n. Cambrian (Lower) China (Hupeh) p. 126 (141) pl. iv figs. 5-7, *R. sp. p.* 145, *R. (Wutingaspis)* Kobayashi 1944 discussed with synonym *Eoredlichia* Chang 1953 p. 141, *R. (W. intermedia* Lu with synonyms *W. tingi*, *W. conditus*, *Yunnanocephalus yaoyingensis* & *R. ? sp.* K. 1944 p. 128 (142) pl. iii figs. 1-12, *R. walcotti* & *R. carinata* Mansuy 1912 also referred to *W.* p. 142, Chang Acta palaeont. sinica 13 1953.

*Redlichia* Cossman 1902 generic concept discussed with reference to Australian material p. 26 ff., diagnosis & relations p. 32-3, *Latiredlichia* Hupé & *Mesodema* Whitehouse synonyms of *Redlichia* p. 34-5, *R. forresti* (Etheridge Jr) interpreted as showing sexual dimorphism p. 12 ff. pl. i figs. 1-3, pl. ii figs. 1-4, pl. iii figs. 1-4 text-figs. 1-3, 7-8 (reconstrs.), *R. idonea* W. not a synonym of *R. f.* p. 9 pl. iv figs. 1-2, pl. v figs. 1-2, pl. vi figs. 4-5, *R. cf. idonea* pl. vi fig. 6, *R. venulosa* (Whitehouse) for *M. v.* W. p. 35 pl. vi figs. 1-3, *R. sp. a* pl. i figs. 4-5 text-figs. 5, 9 (2 views), *R. sp. b* pl. i fig. 6 text-fig. 4 (drawing), *R. sp. c* pl. iii figs. 5-7, *R. sp. d* pl. vi figs. 7-8 [all undescr.] Cambrian (Middle) Australia (N.T. & Queensland); *R. mansuyi* Resser & Endo and *R. carinata* Mansuy discussed and so referred (not to *Pararedlichia*) p. 34; *Neoredlichia* may be a subgenus of *R.* p. 10, Öpik (1).

*Redlichia* Cossman 1902 — *Latiredlichia*, *Mesodema* and *Pararedlichia* [quae vide] probably synonyms p. 259, *Archaeops*, *Neoredlichia* and *Saukiandops* may also be synonyms of *R.* p. 256, Henningsmoen (1).

*Redlichia noetlingi* (Redlich), *R. sp. indet.* p. 332, LEE in Egorova & Hsiang.

*Redlichia noetlingi* age discussed p. 237, Öpik (3).

*Redlichia* n. sp. [undescr.] p. 168, GLAESSNER in Sprigg.

*Redlichia* sp. p. 333, Hsiang in Egorova & Hsiang.

*Redlichia* sp. p. 730, Lotze (3).

Redlichiae Poulsen 1927 discussed and classified into Redlichidae [quod vide] & ? Metadoxididae p. 255, Henningsmoen (1).

Redlichidae Poulsen discussed and classified into Redlichinae, Neo-redlichinae, Saukiandinae p. 255 ff., Henningsmoen (1).

*Reedops* see *Phacops*.

*Remipyga* sp. ? [may belong with the pygidium *Reraspis* ? *sexermis* Öpik to a new genus] p. 175 pl. iii fig. 11, Männil (4).

*Remopleurides* sp. cf. *R. americanus* Raymond p. 83, *R.* sp. p. 84, Kay.

*Remopleurides burmeisteri* Bancroft p. 225, *R.* sp. nov. [undescr.] p. 224, Dean.

*Remopleurides pisiformis* Web. p. 113, *R. salteri* var. *girvanensis* Reed p. 114, Chugaeva.

*Remopleurides* sp. p. 326 ff., Kindle & Whittington.

*Remopleuridid* n. gen. [undescr.] p. 324 ff., Kindle & Whittington.

*Remopleuridiella* Ross 1951 — *Apatocephalus brevifrons* Thoral may belong p. 275, Sdzuyl (2).

*Reraspis kaljoi* sp. n. Ordovician (Middle) Estonia p. 177 pl. iii figs. 6-7; *R. ? sexermis* Öpik may belong with *Remipyga* sp. ? [quod vide] to a new genus p. 175, *R. rosenthali* of Ö. 1937 referred to *Ceraurinella* ? cf. *latifrons* (Warburg) p. 174, Männil Geol. Inst. Uurimused 3 1958.

*Resimopsis* gen. n. [Palaeolenidae] p. 1076 for type *R. marinica* sp. n. p. 1077 figs. 1 (7-9) Cambrian (Lower) U.S.S.R. (Siberia), Repina C. R. Acad. Sci. U.R.S.S. (ns) 121 6 1958.

*Resimopsis mariinica* [sic] gen. nov. sp. nov. p. 1093, Zhuravleva et al.

*Resseria* [nom. nud.] *endoi* Sun, *R. kobayashi* S. [nom. nuda] p. 187, GRABAU 19 [omitted Z.R. 84 11].

*Resserops* R. & E. Richter 1940 a synonym of *Perrector* R. & E. R. p. 263, *R.* (*Rawops*) also a synonym of *P.*, *R.* (*Richterops*) separation probably not justifiable p. 257, *R. resserianus* R. & E. R. a synonym of *P. perrectus* R. & E. R. p. 263, Henningsmoen (1).

*Resserops* see Gen. et sp. indet.

*Reuscholithus reuschi* Bancroft p. 219 pl. xxvi fig. 3, Dean.

*Rhenops* see *Asteropyge*.

*Richardsonella* sp. p. 329 ff., Kindle & Whittington.

*Richterops* Hupé—subgenero separation from *Resserops* [quod vide] probably not justified p. 257, Henningsmoen (1).

*Růžičkaia* Přibyl 1950 a synonym of *Conocephalina* [quod vide] p. 191, Šnajdr (2).

*Salterolithus* Bancroft 1929 discussed p. 82, *S. caractaci* (Murchison) syntype refigured with synonym *Trinucleus intermedius* Wade (lectotype refigured) p. 85 pl. xii figs. 2-6, *S. (Ulricholithus) ulrichi* Bancroft so referred pl. xii fig. 1 although *Ulricholithus* considered not a subgenus of *S.* p. 84; *S. harnagensis* B., *S. aff. h.* B. 1949 & *S. cf. h.* Whittington 1955 all better included in *Broegerolithus* p. 83; *Cryptolithus terryi* [Leith] tentatively referred to *S.* p. 89, Whittard.

*Salterolithus harnagensis* Bancroft, *S. aff. h.* B., *S. smethenensis* B. pl. xxvi fig. 4, *S. caractaci* (Murchison) pl. xxvi fig. 5 p. 219, *S.* sp. p. 220, Dean.

*Sao* Barrande 1846 validated (by suppression of *Sao* Billberg 1820) and added to Official List of Generic Names, *S. hirsuta* B. 1846 added to Official List of Specific Names [see also *Staurogmus*], Opinion 512.

*Sao* Barrande 1846 discussed with synonyms *Monadina* B. 1846, *Monadella* B. 1847, *Acanthocnemis*, *Acanthogramma*, *Crithias*, *Endogramma*, *Enneacnemis*, *Goniacanthus*, *Micropyge*, *Selenosema*, *Staurogmus*, *Tetracnemis* Hawle & Corda 1847 [quod vide] p. 203, *S. hirsuta* B. 1846 (lectotype chosen and figured) onto-

geny redescribed p. 205 *ff.* pl. xxxiv fig. 14 *pars*, pl. xlvi figs. 1–35, pl. xlvi figs. 1–25, pl. xlvi figs. 1–24, text-figs. 44 (1–27, ontogeny), 45 (reconstr.), Šnajdr (2).

*Sao hirsuta* Barrande text-fig. 12 [4 photographs of growth-stages], Bachmayer.

*Sao hispanica* R. & E. Richter 1929 nom. nud. referred to *Pardailhania hispanica* sp. n. p. 241, Šdzuý (1).

Saoidae Hupé 1953 placed on Official List of Family-Group Names, Opinion 512.

*Saouraspis* [subgen. nondescr.] see *Plesiomegalaspis*.

*Saratogia portlandensis* sp. n. p. 50 pl. ii figs. 8–12 Cambrian (Upper) U.S.A. (Pennsylvania), Howell Bull. Wagner Inst. Sci. Philad. 30 4 1955.

*Saukianda* R. & E. Richter 1940 discussed with synonyms *Longianda* & *Pseudosaukianda* p. 257–8, *S. termieri* (Neltner & Poctey 1949) for *L. t.* N. & P. lectotype selected p. 257*n*, *S. andalusiae* R. & E. R. 1940 [excluding pl. 1 figs. 17–19 to *Perrector perrectus*, & pl. 2 fig. 21 tentatively to *Eops eo*] with synonym *Tellerina genata* R. & E. R. p. 261 pl. xxxvi figs. 1–4, pl. xxxvii figs. 1–7, pl. xxxix fig. 4 *pars A*, text-fig. 1 *pars*; *S. cf. andalusiae* of Hupé 1952 [recte 1953] may belong to *S. termieri* p. 261, Henningsmoen (1).

*Saukiandidae* see *Saukiandinae*.

*Saukiandinae* Hupé referred to Redlichidae p. 258, Henningsmoen (1).

Saukid gen. et sp. indet. p. 212, Kobayashi (5).

Saukid trilobites p. 841, Sando.

*Saukiella* sp. from L. Ordovician p. 120 pl. vii fig. 12, Maksimova (2).

*Saukiinae* see *Eosaukia* gen. n.

*Saukiinid* pygidium p. 541, Shaw (2).

*Scabriscutellum* see *Scutellum*.

*Scabriscutellum billingsi* (Barrande) holotype refigured pl. i fig. 6, Šnajdr (3).

*Schagonaria* Poletaeva 1955 discussed and reference to Paradoxididae uncertain, *S. tanuola* P. considered invalid as no holotype designated p. 104, Šnajdr (2).

*Scharyia micropyga* (Hawle & Corda) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Scharyia micropyga* (Hawle & Corda) p. 337, Tomeczykowa.

*Schizophorus* subgen. n. see *Asaphus*.

*Schizoproctus baschkiricus* sp. n. p. 91 pl. v figs. 9–11 Devonian (Middle) U.S.S.R. (Urals), Maksimova Trud. VSEGEI (ns) 3 1955.

*Schizopyge* Clarke 1913 (*non* Heckel 1847) renamed *Tibagya* nom. n. p. 301, Struve (4).

*Schmalenseeia* sp. p. 36, Nekhoroshev.

*Schmidtella* see *Otarion*.

*Schoriella inutilis* Egorova sp. nov. p. 36, Nekhoroshev.

*Scutelluidae* see *Bojoscutellum*, *Decoroscutellum*, *Kosovopeltis*, *Octobroneus*, *Platyscutellum*, *Poroscutellum* genn. n.

*Scutellum* see *Broneus*.

*Scutellum* (*Planiscutellum*) see *Planiscutellum*.

*Scutellum* (*Scabriscutellum*) see *Scabriscutellum*.

*Scutellum acamus* (Hall), *S. cf. rochesterense* Howell & Sanford table XI. Bolton.

*Scutellum analogum mendax* Erben and *S. angusticeps inermis* (Barr.) record of E. from Harz discussed pp. 163, 164, Chlupáč (9).

*Scutellum* (*S.*) *conspersum* Prantl referred to *Bojoscutellum* gen. n. p. 180, Šnajdr (3).

*Scutellum edwardsi* (Barr.) stratigraphic range pl. xi, Prantl & Vaněk (1).

*Scutellum partschi* (Barr.) pl. xx, *S. paliferum* (Beyrich) pl. xxx, Svboda & Prantl.

*Scutellum* (*Scabriscutellum*) n. sp. [undescr.] p. 252, Chlupáč (6).

*Scutellum* sp. p. 34, **Cavet & Pillet**.

*Scutellum* sp. p. 445, **Hong**.

*Scutellum* sp. p. 376, **Horný (4)**.

? *Selenoharpes* p. 324, **Kindle & Whittington**.

*Selenopeltis buchi* (Barr.) p. 73, **Horný (1)**.

*Selenopeltoides* Prantl & Přibyl 1949 a synonym of *Miraspis*, its type *Acidaspis hawlei* Barrande being a synonym of *M. mira crassicornis* p. 241, Prantl & Vaněk (1).

*Selenosema* Hawle & Corda 1847 a synonym of *Sao* p. 203, type *S. thunii* (lectotype chosen and figured pl. xliv fig. 11) a synonym of *Sao hirsuta* p. 205, Šnajdr (2).

*Semicyclocephalus* Ivshin gen. nov. [Kingstoninae], *S. terminalis* I. sp. nov. (type) p. 44, **Borukaev & Ivshin**.

*Semisphaerocephalus* Ivshin gen. nov. [Kingstoninae], *S. nominalis* I. sp. nov. (type) p. 43, *S. grandis* I. sp. nov. p. 44, **Borukaev & Ivshin**.

*Semnocephalus centralis* (Whitfield) p. 11, **Klepper et al.**

*Serrodiscus* see *Eodiscus*.

*Sevillia sevillensis* Weller p. 46, **Wanless**.

*Shumardia* sp. aff. *S. minutula* Harrington p. 567 pl. lxxxiii fig. 17, **Ross (1)**.

*Skemmatopyge* R. & E. Richter 1919 a synonym of *Chaunoproetus* [quod vide] p. 51, **Maksimova (1)**.

*Skreiaspis* Růžička 1944 discussed p. 178, *S. spinosus* (Jahn 1895) lectotype chosen [with synonyms *Ellipsocephalus tumidus* Barrande 1846, *Agrulos porosus* Hawle & Corda (both lectotypes chosen), *Herse neubergii* H. & C. partim, and including *Arionellus ceticephalus* of B. 1852 partim (pl. 10 figs. 1-5)] p. 179 pl. xxxvii figs. 14-33, pl. xxxviii figs. 1-15, text-figs. 38 (reconstr.)-39 (ontogeny), Šnajdr (2).

*Skryjagnostus* Šnajdr 1957 discussed and referred to *Phalacrominae* p. 83, *S. pompeckji* Š 1957 holotype refigured p. 84 pl. vi figs. 4-5, 10, 12-20, text-figs. 13 (F-H), Šnajdr (2).

*Solenoparia* provisionally recorded p. 335, *EGOROVA* in *Egorova & Hsiang*.

*Solenopleura* p. 332, *S. sp.* p. 333, ? *S. sp.* p. 334, **Kindle & Whittington**.

*Solenopleura* ? *aldanensis* sp. nov. p. 37, *S. elgensis* sp. nov. p. 38, **Chernysheva** (3).

*Solenopleura elgensis* Tchern. MS p. 90, **Chernysheva (4)**.

"*Solenopleura*" *franklinensis* Howell, "*S.*", *vermontensis* H. p. 541, ? *S. v.* p. 537, **Shaw (2)**.

*Solenopleura suavis*, *S. superconvexa*, *S. lata* Ivshin spp. nov. p. 44, *S. sp.* p. 56, **Borukaev & Ivshin**.

*Solenopleura torifrons* and *S. ? sp.* Pompeckj 1895 synonyms of *Ptychoparia striata* p. 185, *S. ? conifrons* P. 1895 referred to *Perneraspis* [quod vide] p. 215, Šnajdr (2).

*Solenopleurella* sp. p. 668, **Suvorova & Petropavlovsky**.

*Solenopleuridae* see *Tabalqueia* gen. n.

*Solenopleurina* Růžička 1938 discussed with synonyms *Herse* Hawle & Corda 1847 and *Parasolenopleura* Westergård 1953 p. 200, *S. týrovicensis* R. 1938 with synonym *H. neubergii* H. & C. 1847 restr. (both lectotypes chosen and figured) p. 201 pl. ix figs. 17-20, pl. x figs. 1-14, text-fig. 43 (reconstr.); *Arionellus ceticephalus* of Barrande 1852 partim (pl. 10 fig. 7) may belong to *S. t.* p. 174, Šnajdr (2).

*Solenopleurinae* — *Jincella* Šnajdr 1957 referred p. 196, Šnajdr (2).

*Solenopleuropsis* Thoral 1947 discussed, *S. verdiagana* sp. n. p. 242 pl. ii fig. 4, *S. rubra* sp. n. p. 243 pl. ii fig. 2, *S. simula* sp. n. p. 244 pl. ii fig. 6, *S. thorali* sp. n. p. 244 pl. ii fig. 3, *S. marginata marginata* sp. et subsp. n. p. 245 pl. ii fig. 7, *S. marginata angularis* subsp. n. p. 245 pl. ii fig. 8 Cambrian (Middle) Spain (León), *S. castroi* (Barrois) needs redescription and may be identical with one of the above spp. p. 242, *S. levisilimbata* Thoral may be only a variant of *S. rouayrouxi* p. 243, *Ptychoparia truncata* and *P. azpeitiae* Sam-

pelayo 1935 referred to *S.* p. 242, Sdzuy Senckenbergiana leth. 39 3-4 1958.

? *Solenopleuropopsis* cf. *ribeiro* Verneuil & Barrande p. 731, *S. verdiagana*, *S. rubra*, *S. simula*, *S. marginata* n. spp. (Sdzuy MS) p. 732 ff., *S. thorali* n. sp., *S. marginata angularis* n. subsp. (S. MS) p. 738, Lotze (3).

*Sombrerella* Lochman 1948 discussed and considered not recognizable, *S. mexicana* L. not speci-ficably recognizable p. 162, Palmer.

*Sonoraspis* stratigraphical horizon discussed p. 347, *S. nelsoni* sp. n. Cambrian (Middle) U.S.A. (California) p. 348 pl. i fig. 3, Stoyanow Bull. geol. Soc. Amer. 69 3 1958.

*Spencia* sp. undet. p. 673, Maxey.

*Sphaerexochus bilobatus* sp. n. p. 110 pl. xv figs. 1-4 Ordovician (Middle) Britain (Shropshire), Whittard Palaeontogr. Soc. [Monogr.] 111 1958.

*Sphaerexochus bohemicus* Barr., *S. mirus* Beyr. stratigraphic ranges pl. xi, Prantl & Vaněk (1).

*Sphaerexochus cephaloceras* of Nieszkowski 1859 partim (pl. 1 figs. 14-15) referred to *Nieszkowskia osmüss-aarensis* sp. n. p. 182, *S. conformis* of N. 1857 to *Pseudosphaerexochus hemi-cranius* p. 176, Männil (4).

*Sphaerexochus hisingeri* Warb. lectotype selected [illegitimately] p. 88 pl. ix figs. 13-22 text-fig. 17 (gla-bellar outlines), Chugaeva.

*Sphaerexochus mirus* Beyr. p. 39 pl. vi figs. 6, 10, 20, Weber (2).

*Sphaerexochus romingeri* Hall table XI, Bolton.

*Sphaerexochus romingeri* Hall p. 32, Huffman et al.

*Sphaerocoryphe atlantiades* Öpik 1937 p. 180 text-fig. 3, *S. schmidti* sp. n. p. 180 pl. v fig. 2 text-figs. 4 a-z, *S. erratica* sp. n. including *Cheirurus* (*S.*) cf. *granulatus* of Schmidt 1881 p. 181 pl. v fig. 3 text-fig. 5 (reconstr.) Ordovician (Upper) Estonia, Männil Geol. Inst. Uurimused 3 1958.

*Staurocephalus murchisoni* Barrande 1846 discussed p. 243, statigraphic range pl. xi, Prantl & Vaněk (1).

*Staurocephalus murchisoni* Barr. p. 39 pl. v fig. 10, Weber (2).

*Staurogmus* Hawle & Corda 1847 placed on Official Index as a junior objective synonym of *Sao* Barrande 1846, *S. muricatus* H. & C. 1847 placed on Official Index as a junior objective synonym of *Sao hirsuta* B. 1846, Opinion 512.

*Staurogmus* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *S. latus* H. & C. (lectotype chosen and figured pl. xliv fig. 19) which with *S. acuminatus* and *S. muricatus* H. & C. is a synonym of *Sao hirsuta* p. 205, Šnajdr (2).

*Stenelymus kobayashii* p. 543, Shaw (2).

*Stenopilus* sp. p. 323 ff., ? *S.* sp. p. 324, Kindle & Whittington.

*Stephanocare richthofeni* Monke p. 101, Kobayashi (1).

*Stigmametopus* ? p. 841, Sando.

*Stigmametopus* sp. p. 329 ff., Kindle & Whittington.

*Strenuaeva* R. & E. Richter 1940 referred to *Elleipocephalinae* p. 260, *Hindermeyeria* Hupé may be a synonym p. 266, *S. sampelayoi* R. & E. R. p. 265 pl. xxxviii figs. 4-8, Henningsmoen (1).

*Strenuaeva incondita* n. sp. (Sdzuy MS) p. 730, *S. sampelayoi* moratrix n. subsp. (S. MS) p. 731, Lotze (3).

*Strenuaeva sampelayoi* moratrix subsp. n. p. 238 pl. i fig. 4 Cambrian (Middle) Spain (Zaragoza), Sdzuy Senckenbergiana leth. 39 3-4 1958.

*Strenuellinae* Hupé referred to *Elleipocephalidae* p. 259, Henningsmoen (1).

*Strenuellinae* referred to *Ellipocephalidae* p. 1075, Repina.

*Strenuellinae* see *Kijanella* gen. n.

*Strigigenalis* sp. p. 567 pl. lxxxv figs. 3-4, Ross (1).

*Stygina* see Gen. indet. II.

*Stygina* sp. p. 127, Chugaeva.

*Sulcocephalus* Wilson 1948 taken to replace *Berkeia* Resser 1937 [quod vide] p. 247, **Lochman**.

*Sunaspis laevis* Lu, S. sp. nov. [undescri.] p. 335, **Hsiang** in **Egorova & Hsiang**.

*Syphysurina* vertical range, **Shaw** (1).

*Syphysurina* (*Syphysuroides*) Raymond 1937 discussed, *S.* (*Syphysuroides*) sp. p. 263 pl. ii figs. 1a-b, 2a-b, **Sdzuy** (2).

*Syphysurina* (*Syphysuroides*) *minima* p. 551, *S.* (*S.*) *latus* (Raymond), *S.* (*Syphysurinella*) *cortissensis* (R.) p. 553, **Shaw** (2).

*Syphysurina spicata* Ulrich p. 12, **Leech**.

*Syphysurina* sp. p. 323 ff., ? *S.* sp. p. 324, **Kindle & Whittington**.

*Syphysurinella* see *Syphysurina*.

*Syphysuroides* see *Syphysurina*.

*Syphysurus kujandensis* sp. n. p. 66 pl. vii figs. 15-19 text-fig. 14 (reconstr.), *S. exactus* sp. n. p. 68 pl. viii figs. 1-6 text-fig. 15 (reconstr.) Ordovician (Middle) U.S.S.R. (Kazakhstan), *S.* sp. p. 116, **Chugaeva** Trud. geol. Inst. S.S.S.R. 9 1958.

*Syphysurus pater* (Hol.) p. 142, **Horný & Chlupáč**.

*Syphysurus tungtzuensis* sp. n. p. 189 pl. i figs. 3a-g Ordovician (Lower) China (Kweichow), **Sheng** Acta palaeont. sinica 6 2 1958.

*Synhomalonatus* see *Calymene*.

*Synhomalonotus tristani* (Brongniart 1822) p. 13 pl. vi fig. 4, *S. t.*? p. 27, **Thadeu**.

*Synhomalonotus* or *Colpocoryphe* indet. p. 15, cf. *S. tristani* Brongniart p. 23, **Leckwijck et al.**

*Syspacephalus asperoensis* Rusconi a synonym of *Kisotcare mendozanum* (R.) [quod vide] p. 14, **V. Poulsen**.

*Syspacephalus cadyi* p. 531, **Shaw** (2).

*Sysphacheilus dunoriensis* [sic] (Miller) p. 11, **Klepper et al.**

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*Tabalqueia* gen. n. [? *Solenopleuridae*], *T. punctata* sp. n. p. 85 pl. figs. 2a-b, c [referred pygidium] Cambrian (Upper) Argentina (Mendoza), **Rusconi** Rev. Mus. Hist. nat. Mendoza 11 1-4 1958.

*Taenicephalus cordillerensis* vertical range, **Shaw** (1).

*Taenicephalus* ? *peregrinus* Henningsmoen 1957 apparently belongs to *Pedinocephalus* Ivshin p. 180, Henningsmoen (2).

*Taenicephalus* sp. p. 322, **Kindle & Whittington**.

*Taenicephalus* ? sp. p. 12, **Leech**.

*Taihungshania* Sun 1931 discussed with synonym *Miquelina* Thoral 1931 p. 192, *T. miqueli* (Bergeron) including *T. shui* S. partim (pl. 2 fig. 1a) p. 193 pl. iv figs. 1a-e, *T. shui* S. restr. (pl. 2 fig. 1b) including *M. m.* of T. 1935 (pl. 22 figs. 1, 3, 4) p. 194 pl. iv figs. 2a-b, *T. omeishanensis* sp. n. p. 194 pl. iv figs. 3a-d, *T. omeishanensis* var. *liui* var. n. p. 195 pl. v figs. 1a-h, *T. multisegmenta* sp. n. p. 195 pl. v figs. 2a-g, *T. brevica* S. p. 196 pl. vi figs. 1a-j, *T. brevica* var. *tachengsuisensis* var. n. p. 196 pl. iv fig. 4, *T. brevica* var. *orientalis* var. n. p. 197 pl. iv fig. 5 Ordovician (Lower & Middle) China (S.W.); *T. welleri* Sheng & *T. w.* var. *brevica* S. referred to *Asaphopsis* p. 192-3, **Sheng** Acta palaeont. sinica 6 2 1958.

*Taihungshania pamiricus* Balashova [nom. nud.] p. 381, **Dyufur**.

*Talbotina* ? *levisensis* p. 322, **Kindle & Whittington**.

*Tatulaspis princeps* Ivsh. pl. xiii fig. 14, **Nikitin**.

*Taxioura* Resser discussed p. 350, **Stoyanow**.

*Taxioura* sp. undet. p. 674, **Maxey**.

*Telephina* sp. p. 326 ff., **Kindle & Whittington**.

*Telephus* sp. p. 116, **Chugaeva**.

*Tellerina chinhensis* (Sun) p. 102, **Kobayashi** (1).

*Tellerina genata* R. & E. Richter a synonym of *Saukianda andalusiae* R. & E. R. p. 261, *T. sp. A* R. & E. R. probably belongs to *Eops eo* R. & E. R. p. 264, **Henningsmoen** (1).

*Tellerina regalis* sp. n. p. 53 pl. iii fig. 6, pl. iv figs. 1-4 Cambrian (Upper) U.S.A. (Pennsylvania), **Howell** Bull. Wagner Inst. Sci. Philad. **30** 4 1955.

*Termierella guadalcanalensis* n. sp. (Sdzuy MS) p. 744, *T. sp.* p. 730, **Lotze** (3).

*Tetracnemis* Hawle & Corda 1847 a synonym of *Sao* p. 203, type designated *T. elegantula* H. & C. which with *T. spuria* & *T. selenophora* H. & C. is a synonym of *S. hirsuta* p. 205, **Šnajdr** (2).

*Tetralichas* see *Lichidae* gen. et sp. ind. 1.

*Tetralichas contractus* sp. n. p. 19 pl. iii fig. 21 [line drawing] Silurian (Middle) U.S.S.R., *T. sp.* p. 51, **Weber** Upper Silurian trilobites of the U.S.S.R. 1951.

*Theodenisia communis* (Rasetti) see Undetermined genus and species No. 4.

*Theodenisia* n. sp. [undescri.] p. 543, **Shaw** (2).

*Theodenisia* sp. p. 323 ff., cf. *T. sp.* p. 324, **Kindle & Whittington**.

*Thoralaspis* Hupé referred to *Protoleninae* p. 260, **Henningsmoen** (1).

*Thysanopeltis* see *Bronteus*.

*Tibagya* gen. n. [Calmoniinae] (nom. n. for *Schizopyge* Clarke 1913 non Heckel 1847) for type *Homalonotus* (*Schizopyge*) *paraná* C. 1913 p. 301, **Struve** Senckenbergiana leth. **39** 3-4 1958.

*Tolanaspis* Ivshin gen. nov. [Dorypygidae], *T. almaematri* I. sp. nov., *T. angustifrons* I. sp. nov. p. 43, **Borukaev & Ivshin**.

*Tollaspellus princeps* gen. et sp. nov. p. 29, **Ivshin**.

*Tollaspis quartus* sp. n. p. 134 pl. viii fig. 3 Ordovician (Lower) U.S.S.R. (Siberia), **Maksimova** Field Atlas of the Ordovician and Silurian fauna of the Siberian Platform 1955.

*Tomagnostus* Howell 1935 emend. discussed p. 20, *T. fissus* (Lundgren MS) p. 23 pl. i figs. 1-11, *T. corrugatus* (Illing) p. 27 pl. ii figs. 1-4, *T. gracilis* (I.) p. 30 pl. ii fig. 12, *T. deformis* sp. n. p. 32 pl. ii figs. 5-9, *T. perrugatus* Westergård pl. ii figs. 10-11 Cambrian (Middle) U.S.S.R. (Yakutia), **Fokrovskaya** Trav. géol. Inst. U.R.S.S. No. 16 1958.

*Tomagnostus fissus* p. 333, **Kindle & Whittington**.

*Tonkinella* sp. p. 226, **Drewes**.

*Tostonia* ? from Nevada p. 342, **J. M. GREENE** in **Lochman-Balk & Wilson**.

*Toxotis rarus* Egorova sp. nov. p. 36, **Nekhoroshev**.

*Trematophorus* subgen. n. see *Asaphus*.

*Tretaspinae* Whittington 1941 placed on Official List of Family-Group Names, **Opinion 505**.

*Tretaspis* Murchison 1839 suppressed and placed on Official Index, **Opinion 505**.

*Tretaspis* McCoy 1849 validated by suppression of *Tretaspis* Murchison 1839 and placed on Official List of Generic Names, *T. seticornis* (Hisinger 1840) placed on Official List of Specific Names, **Opinion 505**.

*Tretaspis alfredi* (Žel.) with synonym *T. nováki* Chlupáč 1952 p. 72 n, **Röhlich** (1).

*Tretaspis* ? *alfredi* (Želízko) for *Trinucleus* a. Ž. with synonym *Tretaspis nováki* Chlupáč p. 280, **Röhlich** (2).

*Treveropyge* gen. n. [Asteropyginae] p. 228 for type *Asteropyge* (A.) *prorotundifrons* R. & E. Richter text-figs. 1a-b, *T. ebbae* (R. & E. R.), *T. drevermanni* (R. R.), *T. rotundifrons* (Emmrich) also referred Devonian (Lower & Middle), **Struve** Senckenbergiana leth. **39** 3-4 1958.

*Triangulaspis meglitzkii* (Toll) listed fig. 2, **Suvorova & Petropavlovsky**.

*Triarthropsis australis* Rusconi discussed, *T. pampanus* R. discussed and considered an Olenid p. 129, **Rusconi** (4).

*Triarthrus becki* Green text-fig. 8, Bachmayer.

*Triarthrus* sp. p. 113, Chugaeva.

*Triarthrus* sp. p. 225, Dean.

*Tricrepicephalus nahuelus* Rusc., *T. anarusconii* R. p. 90, Rusconi (2).

*Tricrepicephalus tripunctatus* & *T. beltensis* vertical ranges, Shaw (1).

*Tricrepicephalus* sp. p. 322, Kindle & Whittington.

*Tricrepicephalus* sp. p. 33, Wheeler.

*Trigonocerea* [sic] sp. p. 12, Leech.

*Trigryops kobayashii* Hupé a synonym of *Dionide turnbulli* Whittington p. 98, Whittard.

*Trilobites cornigerus* Schlotheim 1820 suppressed and placed on Official Index, Opinion 510.

*Trilobites decipiens* Barrande 1846 a synonym of *Ptychoparia striata* p. 185, *T. major* Boeck 1827 of *Hydrocephalus minor* p. 139, Šnajdr (2).

*Trilobites hoffi* Schlotheim 1823 placed on Official List of Specific Names, Opinion 512.

*Trilobites scaber* Boeck considered nomen dubium [Lichacea] p. 578, Tripp.

*Trimercephalus* see *Phacops*.

*Trimercephalus caecus* (Gürich 1896) p. 128 pl. ii figs. 1a-c, 2a-b, 3, text-figs. 3 (1a-c, 2a-c, 3a-b), *T. mastophthalmus* (Reinh. Richter 1856) emend. R. & E. Richter 1926 p. 131 pl. i figs. 3a-b, text-figs. 4a-b, *T. laevis* (Münster) differences from *T. m. intraspecific* p. 133, *T. polonicus* sp. n. p. 133 pl. iii figs. 1, 2a-c, text-figs. 5a-c Devonian (Upper) Poland (Holy Cross Mts.), *Osmólska Acta palaeont. polon.* 3 2 1958.

*Trimerolichas warburgae* Phleger [holotype refigured pl. lxxxv, fig. 6] referred to *Platylichas* (and so a homonym of *P. warburgae* Thorslund) and possibly a synonym of *P. halli* (Foerste) pp. 574, 580, Tripp.

*Trimerus* see *Homalonotus*.

*Trimerus delphinocephalus* Green table VIII, *T. sp.* table XI, Bolton.

*Trinodus* McCoy 1846 discussed with revised description, *T. [? on pl. expl.] valmyensis* sp. n. p. 562 pl. lxxxiii figs. 1-4, 7, 14-16, *T. ?* sp. [may belong to *Geragnostus*] p. 564 pl. lxxxiii figs. 5, 6, 8 Ordovician (Lower) U.S.A. (Nevada); *Agnostus fabius* Billings, *A. dusli* Novák & *A. lentiformis* Angelin tentatively excluded from *T.* p. 562, Ross J. Paleont. 32 3 1958.

*Trinodus* sp. p. 324 ff., ? *T.* sp. p. 325, Kindle & Whittington.

*Trinucleen* Emmrich 1844 placed on Official Index as an invalid vernacular Family-Group name, Opinion 505.

*Trinucleid* ? p. 29, Leckwijck et al.

*Trinucleidae* Hawle & Corda 1847 (emended from *Trinucleides*) so attributed and placed on Official List of Family-Group Names, Opinion 505.

*Trinucleides* Hawle & Corda see *Trinucleidae*.

*Trinucleoides* see *Trinucleoides*.

*Trinucleus* Link 1807 & *T. tuberculatus* L. 1807 suppressed and placed on Official Indexes, Opinion 505.

*Trinucleus* Murchison 1839 validated by suppression of *Trinucleus* Link 1807 and placed on Official List of Generic Names, *T. fimbriatus* M. 1839 placed on Official List of Specific Names, Opinion 505.

*Trinucleus alfredi* Želízko referred tentatively to *Tretaspis* [quod vide] p. 280, Röhlich (2).

*Trinucleoides* [sic] *reussi* (Barr.) p. 143, Horný & Chlupáč.

*Triplagnostus* see *Ptychagnostus*.

*Trochurus* list of referred spp. p. 577, *Makromuktis* Phleger may be a synonym as its type *Dicranopeltis* ? *nasuta* Weller may be referable p. 575 n, Tripp.

*Trochurus speciosus* Beyrich stratigraphic range pl. xi, Prantl & Vaněk (1).

*Tropidocoryphe memnon* (Hawle et Corda) p. 376, Horný (4).

*Tsinania* spp. p. 102, Kobayashi (1).

*Tungtzuella* gen. nov. [recte in Lu 1957] [Asaphidae] for type *T. kweichowensis* sp. nov. [in Lu 1957] p. 191 pl. iii figs. 2a-g (Kweichow), *T. szechuanensis* sp. n. p. 192 pl. iii figs. 1a-e (Szechuan), *T. yunnanensis* sp. n. p. 192 pl. iii figs. 3a-f China (Yunnan) Ordovician (Lower), **Sheng Acta palaeont. sinica** 6 2 1958.

*Typhloproetus* Richter 1913 discussed p. 111, *T. ebersdorffensis* (R. 1913) p. 112 pl. viii figs. 16-17, *T. carintiacus* (Drevermann 1901) p. 113 pl. viii fig. 15, *T. subcarintiacus* R. 1913 p. 114 pl. viii figs. 11-14, *T. kijensis* sp. n. Devonian (Upper) U.S.S.R. (Kazakhstan) p. 117 pl. viii figs. 1-10, *T. aff. schindewolfi* R. & E. R. 1919 p. 120 pl. ix figs. 9-11, **Maksimova** Trud. VSEGEI (ns) 3 1955.

*Typhloproetus sinicus* sp. n. with 7 thoracic segments p. 190 (191) pl. i figs. 1-11 Devonian (Upper) China (Kwangsi), **Chang** Acta palaeont. sinica 3 3 1955.

*Ulricholithus* Bancroft 1949 discussed and considered near to *Broeggerolithus* and not a subgenus of *Salterolithus* [quod vide] p. 84, **Whittard**.

*Ulricholithus ulrichi* (Bancroft) pl. xxvi fig. 6, **Dean**.

*Uncaspis* recorded p. 539, **Shaw** (2).

*Uncaspis* sp. p. 33, **Wheeler**.

*Unguliproetus* see *Proetus*.

*Uralichas* list of referred spp. p. 575, *U. avus* (Barrande) with synonym *Autoloxolichas reedi* Phleger [holotype refigured] p. 574 pl. lxxxv figs. 1-2, **Tripp**.

*Urbanaspis notabilis* gen. et sp. nov. p. 29, **Ivshin**.

*Vermontella* ? *minor* (Raymond) 1937 [presumably for *Idahoia* m. R.] pp. 543, 548, **Shaw** (2).

*Vinäkainella* [recte *Vinäkainella*] Rusconi 1952 suggested to be abandoned as a subgenus of *Oryctocephalus* [quod vide] p. 6, **V. Poulsen**.

*Vinicella* Šnajdr 1957 discussed and referred to *Zacanthoididae*, *V. desiderata* (Barrande 1846) holotype refigured p. 85 pl. xi fig. 1, **Šnajdr** (2).

*Vogdesia* sp. cf. *V. vigilans* (Meek & Worthen) p. 22, **Leech**.

*Vogedesia* [recte *Vogdesia*] p. 527, **Gutstadt**.

*Volonellus* Ivshin gen. nov. [Familia incerta], *V. granulatus* (type), *V. inflatus*, *V. magnus* I. spp. nov. p. 44, **Borukaev & Ivshin**.

*Volonellus* see *Chinghizella*.

*Wanneria* Walcott 1910 discussed, *W. abnormis* sp. n. p. 16 pl. vii figs. 1-4, *W. inermis* sp. n. p. 17 pl. iv figs. 1-11, *W. mediocris* sp. n. p. 18 pl. v figs. 1-5, *W. ruginosa* sp. n. p. 19 pl. vi figs. 1-5, *W. subglabra* sp. n. p. 20 pl. vi figs. 6-8, *W. troelseni* sp. n. p. 21 pl. v figs. 6-9, *W.?* sp. p. 22 pl. vii figs. 5-7 Cambrian (Lower) Greenland (N.W.); *Olenellus arcticus* Poulsen may be referable to *W.* p. 6n, **C. Poulsen** Medd. Grønland 162 2 1958.

*Wanneria* p. 8, **Leech**.

? *Wanneria* sp. from Venezuela p. 416, **Schwarck Anglade**.

*Warburgella* cf. *stokesi* (Murchison) p. 139, **Curtis**.

*Waribile* see *Cyrtosymbole*.

*Weberides mucronatus* (McCoy) pp. 40, 41, **Fowler**.

*Weberides* cf. *mucronatus* (McCoy) & ? *W.* cf. *m.* p. 67 ff., *W. mucronatus* p. 70, **Tulloch & Walton**.

*Welleraspis* p. 332, **Kindle & Whittington**.

*Welleraspis* recorded p. 539, *W.* sp. p. 543, **Shaw** (2).

*Weymouthia caudata* (Delgado) p. 744, **Lotze** (3).

*Weymouthia minor*, *W. tchernyshewae* Egorova spp. nov. p. 32, **Nekhoroshev**.

*Wutingaspis* Kobayashi 1944 with synonym *Eoredlichia* Chang a subgenus of *Redlichia* [quod vide], *W. tinge* & *W. conditus* K. synonyms of *R. (W.) intermedia* Lu p. 142, **Chang** (1).

*Xenostegium* sp. p. 12, **Leech**.

*Xystridura*—remarks on pygidial ontogeny p. 20, **Öpik** (1).

*Youngia uralica* Tschern. [Chern.] p. 38 pl. vi figs. 4, 9a-6, 15, **Weber** (2).

*Yunnanocephalus yaoyingensis* Kobayashi 1944 a synonym of *Redlichia (Wutingaspis) intermedia* Lu p. 142, **Chang** (1).

*Zacanthoides* p. 329 ff., **Kindle & Whittington**.

*Zacanthoides ferula* Leanza p. 18, **V. Poulsen**.

*Zacanthoides kelsaya* p. 531, **Shaw** (2).

**Zacanthoididae**—*Vinicella* Šnajdr referred p. 85, **Šnajdr** (2).

*Zacanthopsis* sp. p. 531, **Shaw** (2).

*Zacompus* sp. p. 329, **Kindle & Whittington**.

*Zbirovia vaněki* sp. n. [nom. nud. 1957] p. 207 pl. i figs. 1-9, pl. ii figs. 10-20, text-figs. 1-2 Ordovician (Upper) Bohemia, **Šnajdr** Sborn. Úst. úst. geol. 24 [Pal.] 1958.

*Zeliszkella* Delo 1935 discussed and referred to *Zeliszkella*-group of *Zeliszkellinae* p. 172, *Z. (Zeliszkella)* discussed p. 175, *Z. (Z.) deshayesi* (Barrande 1846) pl. i figs. 6a-c text-fig. 2, *Z. (Z.) oriens* (B. 1872) discussed p. 174 text-fig. 3, *Z. (Z.)* cf. o. pl. ii figs. 10a-b, *Z. (Mytocephala) subgen. n.* p. 176 for type *Z. (M.) mytoensis* (Klouček 1916) [for *Dalmanites oriens* var. *m. K.*] p. 177 pl. i figs. 7a-d, pl. ii figs. 8a-b (photo-reconstr.) Ordovician (Middle) Bohemia, *Z. (M.) hawleii* (B. 1846) [record of Maillieux 1939 discussed p. 175] p. 182 text-figs. 4a-c; *Dalmanitina atava* record of H. & G. Termier 1950 may belong to *Z.* p. 175, Formenkreis of *Ormathops mirus* may belong to *Z.* p. 189, **Struve** *Senckenbergiana leth.* 39 3-4 1958.

*Zeliszkella*-group [*Zeliszkellinae*] p. 170 to include *Zeliszkella* and *Ormathops* [quae vide], **Struve** (1).

*Zeliszkellinae* Delo 1935 discussed and referred to *Dalmanitidae* p. 168, classified into *Zeliszkella*-group and *Dalmanitina*-group [quae vide], **Struve** (1).

*Barrandova larva* (Barrande's larva) for *Protaspis* of Růžička 1943 (p. 14) p. 218 pl. xlvi fig. 25, **Šnajdr** (2).

Free Cheek No. 1 [Shaw 1952] p. 543, **Shaw** (2).

Gen. et sp. indet. Carboniferous (Upper) Spitzbergen p. 472, **Forbes** et al.

Gen. et sp. indet. [Pagetiidae, may be pygidium of *Dipharus spinosus*] p. 124 (139) pl. i figs. 38-39, **Chang** (1).

Gen. et sp. indet.? ex aff. *Resserops* p. 730, **Lotze** (3).

Gen. indet. I (*Bronteopsis ? extraordinaris* sp. n.) p. 107 pl. xi figs. 10-14, Gen. indet. II [compared with *Stygina* and *Phillipsinella*] p. 109 pl. xi figs. 5-9 text-fig. 20 (reconstruction) Ordovician (Middle) U.S.S.R. (Kazakhstan), **Chugaeva** Trud. geol. Inst. S.S.S.R. 9 1958.

Hypostomes, not identified [undescr.] pl. lxxxiv figs. 20-22 Ordovician (Lower) U.S.A. (Nevada), **Ross** (1).

Indet. trilobites p. 898, **Wolfenden**.

Indeterminate fragments p. 73 Ordovician (Lower) Spitzbergen, **Hallam**.

Indeterminate trilobite (possibly *Leiostegium*) p. 847, **Sando**.

New genera [undescr.] p. 332, **Kindle & Whittington**.

Pygidia Nos. 2, 3, 5, 6 [Shaw 1952] p. 543, **Shaw** (2).

Pygidium of undetermined genus and species [undescr.] [may belong to Undetermined genus and species No. 1] pl. lxxxiii fig. 18 Ordovician (Lower) U.S.A. (Nevada), **Ross** (1).

Raymondova larva (Raymond's larva) [Incatae speciei, probably not a Paradoxidid, reminiscent of Suvorova's Protolenids] for *Paradoxides* sp. ind. of Raymond 1914 and *P. rugulosus* of Růžička 1943 partim (pl. 2 figs. 2-5) p. 216 pl. ix figs. 12-16 text-figs. 46 (I-IX), **Šnajdr** (2).

Růžičkova larva (Růžička's larva)—the metaprotaspis of *Eccaparadoxides pusillus* [quod vide] (described by Růžička 1943 as of *Hydrocephalus saturnoides*) so referred p. 117, **Šnajdr** (2).

Šufova larva (Šuf's larva) accepted as protaspis of *Hydrocephalus carens* [quod vide] p. 131, Šnajdr (2).

Trilobitae indet. p. 61, Rösler (2).

Trilobite [compared with *Ellipsocephalus* in 1940] from Eastern Alps figured p. 246 text-figs. a-b, organic origin upheld, Peltzmann.

Trilobite fragments p. 327, Kindle & Whittington.

Trilobite [remains] p. 59 ff., Tulloch & Walton.

Trilobite (pygidium) gen. et sp. indet. p. 101, Kobayashi (1).

Trilobites p. 846 ff., Trilobite indet. p. 851, Sando.

Trilobites pp. 8, 10, Thorsteinsson & Fortier.

Trilobites (limestone with) pl. vi fig. 12, Maksimova (1).

Trilobites inclassifiables p. 20, Thadeu.

Unassigned pytchopariid pygidia p. 541, Shaw (2).

Undetermined genus and species [undescr. pygidium] [probably assignable to Unidentified Proparian species (p. 569) or *Pliomeroides* sp.]

pl. lxxxiv fig. 11 Ordovician (Lower) U.S.A. (Nevada), Ross (1).

Undetermined genus and species No. 1 [probably congeneric with "*Isbergia*" *virginica* Cooper, see also Pygidium of undetermined genus and species] p. 567 pl. lxxxiv figs. 6, 8, Undetermined genus and species No. 2 [resemblances to Illaenids & Nileids] p. 567 pl. lxxxiv figs. 1-2, 13-15, Undetermined genus and species No. 3 [resemblances to *Hysterolenus* and *Ceratopyge*] p. 568 pl. lxxxiv fig. 23 [fig. no. omitted on pl.], Undetermined genus and species No. 4 [resemblance to *Theodenisia communis* (Rasetti)] p. 568 pl. lxxxiv figs. 16-19 Ordovician (Lower) U.S.A. (Nevada), Ross (1).

Undetermined Olenellidae p. 22 pl. vii figs. 8-9 [hypostome, resemblance to *Holmia*], 10 [cephalon, resemblance to *Olenellus truemanii*], 11 [larva] Cambrian (Lower) Greenland (N. W.), C. Poulsen (1).

Unidentified Proparian species [cranidia] p. 569 pl. lxxxiv figs. 9-10 [see also Undetermined genus and species (pygidium)] Ordovician (Lower) U.S.A. (Nevada), Ross (1).

Unidentified pygidium [undescr.] pl. lxxxiv fig. 12 Ordovician (Lower) U.S.A. (Nevada), Ross (1).